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CONSENT DECREE

United States of America vs. City of Fresno

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NOTICE OF OBLIGATION TO PROVIDE ACCESS

To Whom it May Concern:

Pursuant to the terms of Article V, Section 9(b) of the Consent Decree entered into by the United States of America and the City of Fresno, which is attached, this is to give notice that the Consent Decree provides the right of access to the Federal and State Governments pursuant to the terms and conditions of Article IX for the purposes related to the work performed under this Consent Decree.

The Fresno City Council approved the terms of the Consent Decree, as presented on October 21, 1997.

98-068
P.W.File No.10083

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17 IN THE UNITED STATES DISTRICT COURT
18 FOR THE EASTERN DISTRICT OF CALIFORNIA

19 UNITED STATES OF AMERICA,) CIVIL NO.

20 Plaintiff,)
21 v.)

22 CITY OF FRESNO,)
23 Defendant.)

24

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LODGED

FEB 25 1998

CLERK, U.S. DISTRICT COURT
EASTERN DISTRICT OF CALIFORNIA
BY DEPT

FILED

JUN 10 1998

CLERK, U.S. DISTRICT COURT
EASTERN DISTRICT OF CALIFORNIA
BY DEPUTY CLERK

CONSENT DECREE

I hereby attest and certify on 7/6/98
that the foregoing document is a full, true
and correct copy of the original on file in my
office and in my legal custody.

JACK L. WAGNER

CLERK, U. S. DISTRICT COURT
EASTERN DISTRICT OF CALIFORNIA

By Deputy

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1 I. BACKGROUND

2 I. The United States of America ("United States"), on behalf of
3 the Administrator of the United States Environmental Protection
4 Agency ("EPA"), filed a complaint in this matter pursuant to
5 Sections 106 and 107 of the Comprehensive Environmental Response,
6 Compensation, and Liability Act ("CERCLA"), 42 U.S.C. §§ 9606,
7 9607.

8 A. The United States in its complaint seeks, inter alia:
9 (1) reimbursement of costs incurred by EPA and the Department of
10 Justice ("DOJ") for response actions at the Fresno Sanitary
11 Landfill Superfund Site in Fresno, California, together with
12 accrued interest; and (2) performance of response work by the
13 defendant at the Site consistent with the National Contingency
14 Plan, 40 C.F.R. Part 300 (as amended) ("NCP").

15 B. In accordance with the NCP and Section 121(f)(1)(F) of
16 CERCLA, 42 U.S.C. § 9621(f)(1)(F), EPA notified the State of
17 California (the "State") on April 10, 1997, of negotiations with
18 potentially responsible parties regarding the implementation of
19 the remedial action for the Site, and EPA has provided the State
20 with an opportunity to participate in such negotiations and be a
21 party to this Consent Decree.

22 [C. RESERVED.]

23 D. In accordance with Section 122(j)(1) of CERCLA, 42
24 U.S.C. § 9622(j)(1), EPA notified the Department of Interior,
25 Regional Environmental Officer, the natural resource damage
26 trustee for this Site on April 1, 1997, of negotiations with the
27 City regarding the release of hazardous substances that may have
28 resulted in injury to the natural resources under Federal

1 trusteeship and encouraged the trustee(s) to participate in the
2 negotiation of this Consent Decree.

3 E. The Defendant, the City of Fresno ("City"), in entering
4 into this Consent Decree, neither admits any liability to the
5 Plaintiff arising out of the transactions or occurrences alleged
6 in the complaint, nor does the City acknowledge that the release
7 or threatened release of hazardous substance(s) at or from the
8 Site constitutes an imminent or substantial endangerment to the
9 public health or welfare or the environment.

10 F. Pursuant to Section 105 of CERCLA, 42 U.S.C. § 9605, EPA
11 placed the Site on the National Priorities List, set forth at 40
12 C.F.R. Part 300, Appendix B, by publication in the Federal
13 Register on October 4, 1989, 54 Fed. Reg. 41020.

14 G. In response to a release or a substantial threat of a
15 release of a hazardous substance(s) at or from the Site, on
16 September 21, 1990, pursuant to 40 C.F.R. 300.430, the City
17 commenced a Remedial Investigation and Feasibility Study
18 ("RI/FS") for the Site.

19 H. The City issued a Feasibility Study ("FS") Report in
20 September 1992 for Operable Unit 1 ("OU1") which pertains to the
21 containment of the trash prism. The City completed a Remedial
22 Investigation ("RI") Report in May 1994 and issued an FS Report
23 in July 1996 for Operable Unit 2 ("OU2") which pertains to the
24 cleanup of the groundwater impacted by the landfill contaminants.

25 I. Pursuant to Section 117 of CERCLA, 42 U.S.C. § 9617, EPA
26 published notice of the completion of the FS and of the proposed
27 plan for the remedial action for OU1 in March 1993 and published
28 notice of the completion of the FS and of the proposed plan for

1 the remedial action for OU2 in July 1996. Both notices were
2 published in a major local newspaper of general circulation. EPA
3 provided an opportunity for written and oral comments from the
4 public on the proposed plans for the remedial actions for OU1 and
5 OU2. A copy of the transcript of the public meetings is
6 available to the public as part of the administrative records
7 upon which the Regional Administrator based the selection of the
8 response actions..

9 J. The decision by EPA on the remedial actions to be
10 implemented at the Site is embodied in two final Records of
11 Decision ("ROD"). The ROD for OU1 was executed on September 30,
12 1993, and the ROD for OU2 was executed on September 30, 1996.
13 The State has given its concurrence on these two RODs. The RODs
14 include a responsiveness summary to the public comments. Notice
15 of the final plans were published in accordance with Section
16 117(b) of CERCLA.

17 K. Based on the information presently available to EPA, EPA
18 believes that the Work for OU1 and OU2 will be properly and
19 promptly conducted by the City if conducted in accordance with
20 the requirements of this Consent Decree and its appendices.

21 L. Solely for the purposes of Section 113(j) of CERCLA, the
22 remedial actions selected by the RODs and the Work to be
23 performed by the City shall constitute response actions taken or
24 ordered by the President.

25 M. The Parties recognize, and the Court by entering this
26 Consent Decree finds, that this Consent Decree has been
27 negotiated by the Parties in good faith and implementation of
28 this Consent Decree will expedite the cleanup of the Site and

1 will avoid prolonged and complicated litigation between the
2 Parties, and that this Consent Decree is fair, reasonable, and in
3 the public interest.

4 NOW, THEREFORE, it is hereby Ordered, Adjudged, and Decreed:
5

6 II. JURISDICTION
7

8 1. This Court has jurisdiction over the subject matter of
9 this action pursuant to 28 U.S.C. §§ 1331 and 1345, and 42 U.S.C.
10 §§ 9606, 9607, and 9613(b). This Court also has personal
11 jurisdiction over the City. Solely for the purposes of this
12 Consent Decree and the underlying complaint, the City waives all
13 objections and defenses that it may have to jurisdiction of the
14 Court or to venue in this District. The City shall not challenge
15 the terms of this Consent Decree or this Court's jurisdiction to
16 enter and enforce this Consent Decree.

17 III. PARTIES BOUND

18 2. This Consent Decree applies to and is binding upon the
19 United States and upon the City and its assigns. Any change in
20 ownership or corporate status of the City, including, but not
21 limited to, any transfer of assets or real or personal property,
22 shall in no way alter the City's responsibilities under this
23 Consent Decree.

24 3. The City shall provide a copy of this Consent Decree to
25 each contractor hired to perform the Work (as defined below)
26 required by this Consent Decree and to each person representing
27 the City with respect to the Site or the Work and shall condition
28 all contracts entered into hereunder upon performance of the Work

1 in conformity with the terms of this Consent Decree. The City or
2 its contractors shall provide written notice of the Consent
3 Decree to all subcontractors hired to perform any portion of the
4 Work required by this Consent Decree. The City shall nonetheless
5 be responsible for ensuring that its contractors and
6 subcontractors perform the Work contemplated herein in accordance
7 with this Consent Decree. With regard to the activities
8 undertaken pursuant to this Consent Decree, each contractor and
9 subcontractor shall be deemed to be in a contractual relationship
10 with the City within the meaning of Section 107(b)(3) of CERCLA,
11 42 U.S.C. § 9607(b)(3).

12 IV. DEFINITIONS

13 4. Unless otherwise expressly provided herein, terms used
14 in this Consent Decree which are defined in CERCLA or in
15 regulations promulgated under CERCLA shall have the meaning
16 assigned to them in CERCLA or in such regulations. Whenever
17 terms listed below are used in this Consent Decree or in the
18 appendices attached hereto and incorporated hereunder, the
19 following definitions shall apply:

20 "CERCLA" shall mean the Comprehensive Environmental
21 Response, Compensation, and Liability Act of 1980, as amended, 42
22 U.S.C. §§ 9601 et seq.

23 "Consent Decree" shall mean this Decree and all appendices
24 attached hereto (listed in Section XXIX). In the event of
25 conflict between this Decree and any appendix, this Decree shall
26 control.

27 "Day" shall mean a calendar day unless expressly stated to
28 be a working day. "Working day" shall mean a day other than a

1 Saturday, Sunday, or Federal holiday. In computing any period of
2 time under this Consent Decree, where the last day would fall on
3 a Saturday, Sunday, or Federal holiday, the period shall run
4 until the close of business of the next working day.

5 "EPA" shall mean the United States Environmental Protection
6 Agency and any successor departments or agencies of the United
7 States.

8 "Future Response Costs" shall mean all costs, including, but
9 not limited to, direct and indirect costs, that the United States
10 incurs in reviewing or developing plans, reports and other items
11 pursuant to this Consent Decree, verifying the Work, or otherwise
12 implementing, overseeing, or enforcing this Consent Decree,
13 including, but not limited to, payroll costs, contractor costs,
14 travel costs, laboratory costs, the costs incurred pursuant to
15 Sections VII, IX (including, but not limited to, attorneys fees
16 and any monies paid to secure access and/or to secure
17 institutional controls, including the amount of just
18 compensation), XV, and Paragraph 85 of Section XXI. Future
19 Response Costs shall also include all Interim Response Costs.

20 "Interim Response Costs" shall mean all costs, including
21 direct and indirect costs, (a) paid by the United States in
22 connection with the Site between January 1, 1996 and the
23 effective date of this Consent Decree, or (b) incurred prior to
24 the effective date of this Consent Decree but paid after that
25 date.

26 "Interest," shall mean interest at the rate specified for
27 interest on investments of the Hazardous Substance Superfund
28 established under Subchapter A of Chapter 98 of Title 26 of the

1 U.S. Code, compounded on October 1 of each year, in accordance
2 with 42 U.S.C. § 9607(a).

3 "Municipal Solid Waste" shall mean all waste materials
4 generated by households, including single- and multi-family
5 residences, and hotels and motels. The term also includes waste
6 materials generated by commercial, institutional, and industrial
7 sources, to the extent such wastes (A) are essentially the same
8 as waste normally generated by households, or (B) are collected
9 and disposed of with other municipal solid waste or sewage sludge
10 as part of normal municipal solid waste collection services and,
11 regardless of when generated, would be considered conditionally
12 exempt small quantity generator waste under regulations issued
13 pursuant to Section 3001(d)(4) of the Solid Waste Disposal Act
14 (42 U.S.C. 6921(d)(4)). Examples of Municipal Solid Waste
15 include food and yard waste, paper, clothing, appliances,
16 consumer product packaging, disposable diapers, office supplies,
17 cosmetics, glass and metal food containers, elementary or
18 secondary school science laboratory waste, and household
19 hazardous waste. The term does not include combustion ash
20 generated by resource recovery facilities or municipal
21 incinerators, or waste from manufacturing or processing
22 (including pollution control) operations not essentially the same
23 as waste normally generated by households.

24 "National Contingency Plan" or "NCP" shall mean the National
25 Oil and Hazardous Substances Pollution Contingency Plan
26 promulgated pursuant to Section 105 of CERCLA, 42 U.S.C. § 9605,
27 codified at 40 C.F.R. Part 300, and any amendments thereto.

28 "Operation and Maintenance" or "O & M" shall mean all

1 activities required to maintain the effectiveness of the Remedial
2 Action as required under the Operation and Maintenance Plan
3 approved or developed by EPA pursuant to this Consent Decree and
4 the Statement of Work (SOW).

5 "Paragraph" shall mean a portion of this Consent Decree
6 identified by an Arabic numeral or an upper case letter.

7 "Parties" shall mean the United States and the City.

8 "Past Response Costs" shall mean all costs, including, but
9 not limited to, direct and indirect costs, that the United States
10 paid at or in connection with the Site through December 31,
11 1995, plus Interest on all such costs which has accrued pursuant
12 to 42 U.S.C. § 9607(a) through such date.

13 "Performance Standards" shall mean the cleanup standards and
14 other measures of achievement of the goals of the Remedial
15 Actions, set forth in Sections 9 and 10 of the September 30, 1993
16 ROD, Section 10 of the September 30, 1996 ROD, Section 7.0 of the
17 SOW for Operable Unit One, and Section 7.0 of the SOW for
18 Operable Unit Two.

19 "Plaintiff" shall mean the United States.

20 "Project Coordinator" for the City shall mean the City's
21 designated representative who shall have the authority, duties,
22 and responsibilities for overseeing the implementation of this
23 Consent Decree.

24 "RCRA" shall mean the Solid Waste Disposal Act, as amended,
25 42 U.S.C. §§ 6901 et seq. (also known as the Resource
26 Conservation and Recovery Act).

27 "Records of Decision" or "RODs" shall mean the EPA Records
28 of Decision relating to the two Operable Units at the Site: for

1 OU1 signed on September 30, 1993, by the Regional Administrator,
2 EPA Region 9, or his/her delegate, and all attachments thereto;
3 for OU2 signed on September 30, 1996, by the Regional
4 Administrator, EPA Region 9 or his/her delegate, and all
5 attachments thereto. The RODs are attached as Appendix A and are
6 hereby incorporated by reference into this Decree.

7 "Remedial Actions" shall mean those activities, except for
8 Operation and Maintenance, to be undertaken by the City to
9 implement the RODs, in accordance with the SOW, the final
10 Remedial Action Work Plan for OU1, the Remedial Design and
11 Remedial Action Report for OU2, and other plans approved by EPA.

12 "Remedial Action Work Plan" shall mean the documents
13 developed pursuant to Paragraph 11 of this Consent Decree and
14 approved by EPA, and any amendments thereto.

15 "Remedial Design/Remedial Action Report" shall mean the
16 documents developed pursuant to Paragraph 12 of this Consent
17 Decree and approved by EPA, and any amendments thereto.

18 "Site" shall mean the Fresno Sanitary Landfill Superfund
19 Site, encompassing approximately 145 acres, that is located four
20 miles southwest of the City of Fresno, bounded on the north by
21 Jensen Avenue, on the east by West Avenue, on the south by North
22 Avenue and on the west by agricultural fields, in Fresno County,
23 California, and depicted generally on the map attached as
24 Appendix C.

25 "State" shall mean the State of California, its employees
26 and authorized representatives represented by the Department of
27 Toxic Substances and Control (DTSC) as the lead agency.

28 "Statement of Work" or "SOW" shall mean the statement of

1 work for implementation of the Remedial Designs, Remedial
2 Actions, and Operation and Maintenance at the Site, as set forth
3 in Appendix B to this Consent Decree and any modifications made
4 in accordance with this Consent Decree.

5 "Supervising Contractor" shall mean the principal contractor
6 retained by the City to supervise and direct the implementation
7 of the Work on either of the two operable units under this
8 Consent Decree.

9 "United States" shall mean the United States of America.

10 "Waste Material" shall mean (1) any "hazardous substance"
11 under Section 101(14) of CERCLA, 42 U.S.C. § 9601(14); (2) any
12 pollutant or contaminant under Section 101(33), 42 U.S.C.
13 § 9601(33); [(3) any "solid waste" under Section 1004(27) of
14 RCRA, 42 U.S.C. § 6903(27)].

15 "Work" shall mean all activities the City is required to
16 perform under this Consent Decree, except those required by
17 Section XXV (Retention of Records).

18 V. GENERAL PROVISIONS

19 5. Objectives of the Parties

20 The objectives of the Parties in entering into this Consent
21 Decree are to protect public health or welfare or the environment
22 at the Site expeditiously by agreeing upon the design and
23 implementation of response actions at the Site by the City, to
24 reimburse Interim and Future Response Costs of the Plaintiff, and
25 to resolve the claims of Plaintiff including claims for past
26 costs against the City as provided in this Consent Decree.

1 6. Commitments by the City

2 The City shall finance and perform the Work in accordance
3 with this Consent Decree, the RODs, the SOWs, and all work plans
4 and other plans, standards, specifications, and schedules set
5 forth herein or developed by the City and approved by EPA
6 pursuant to this Consent Decree. The City shall also reimburse
7 the United States for Interim and Future Response Costs as
8 provided in this Consent Decree.

9 7. Compliance With Applicable Law

10 All activities undertaken by the City pursuant to this
11 Consent Decree shall be performed in accordance with the
12 requirements of all applicable federal and state laws and
13 regulations. The City must also comply with all applicable or
14 relevant and appropriate requirements of all Federal and state
15 environmental laws as set forth in the RODs and the SOWs. The
16 activities conducted pursuant to this Consent Decree, if approved
17 by EPA, shall be considered to be consistent with the NCP.

18 8. Permits

19 a. As provided in Section 121(e) of CERCLA and Section
20 300.400(e) of the NCP, no permit shall be required for any
21 portion of the Work conducted entirely on site (i.e., within the
22 areal extent of contamination or in very close proximity to the
23 contamination and necessary for implementation of the Work).
24 Where any portion of the Work that is not on site requires a
25 federal or state permit or approval, the City shall submit timely
26 and complete applications and take all other actions necessary to
27 obtain all such permits or approvals.

28 b. The City may seek relief under the provisions of

1 Section XVIII (Force Majeure) of this Consent Decree for any
2 delay in the performance of the Work resulting from a failure to
3 obtain, or a delay in obtaining, any permit required for the
4 Work.

5 c. This Consent Decree is not, and shall not be
6 construed to be, a permit issued pursuant to any federal or state
7 statute or regulation.

8 9. Notice of Obligations to Successors-in-Title

9 a. Within fifteen (15) days after the entry of this
10 Consent Decree, the City shall record a certified copy of this
11 Consent Decree with the Recorder's Office or Registry of Deeds or
12 other appropriate office in Fresno County, State of California.
13 Thereafter, each deed, title, or other instrument conveying an
14 interest in the property included in the Site shall contain a
15 notice stating that the property is subject to this Consent
16 Decree and shall reference the recorded location of the Consent
17 Decree and any restrictions applicable to the property under this
18 Consent Decree.

19 b. The obligations of the City with respect to the
20 provision of access under and the implementation of institutional
21 controls under Section IX (Access) shall be binding upon the City
22 and any and all persons who subsequently acquire any such
23 interest or portion thereof (hereinafter "Successors-in-Title").
24 Within fifteen (15) days after the entry of this Consent Decree,
25 the City shall record at the Recorder's Office, or Registry of
26 Deeds or other appropriate office where land ownership and
27 transfer records are maintained for the property owned by the
28 City which is included in the Site a notice of obligation to

1 provide access under Section IX (Access) and related covenants,
2 if any. Each subsequent instrument conveying an interest to any
3 such property included in the Site shall reference the recorded
4 location of such notice and covenants applicable to the property.

5 c. The City and any Successor-in-Title shall, at
6 least thirty (30) days prior to the conveyance of any such
7 interest, give written notice of this Consent Decree to the
8 grantee and written notice to EPA of the proposed conveyance,
9 including the name and address of the grantee, and the date on
10 which notice of the Consent Decree was given to the grantee. In
11 the event of any such conveyance, the City's obligations under
12 this Consent Decree, including its obligations to provide or
13 secure access pursuant to Section IX, shall continue to be met by
14 the City. In addition, if the United States approves, the
15 grantee may perform some or all of the Work under this Consent
16 Decree. In no event shall the conveyance of an interest in
17 property that includes, or is a portion of, the Site release or
18 otherwise affect the liability of the City to comply with the
19 Consent Decree, without prior EPA approval.

20 VI. PERFORMANCE OF THE WORK BY THE CITY

21 10. Selection of Supervising Contractor

22 a. All aspects of the Work to be performed by the
23 City pursuant to Sections VI (Performance of the Work by the
24 City), VII (Remedy Review), VIII (Quality Assurance, Sampling and
25 Data Analysis), and XV (Emergency Response) of this Consent
26 Decree shall be under the direction and supervision of the
27 Supervising Contractor for each operable unit, the selection of
28 which shall be subject to disapproval by EPA. Within ten (10)

1 days after the bid approval by the City Council, the City shall
2 notify EPA in writing of the name, title, and qualifications of
3 any contractor proposed to be the Supervising Contractor. EPA
4 will issue a notice of disapproval or an authorization to
5 proceed. EPA shall not withhold approval of the City's
6 Supervising Contractor unreasonably. If EPA disapproves the
7 City's Supervising Contractor, EPA shall state the grounds for
8 its disapproval. If at any time thereafter, the City proposes
9 to change a Supervising Contractor, the City shall give such
10 notice to EPA and must obtain an authorization to proceed from
11 EPA, after a reasonable opportunity for review and comment by the
12 State, before the new Supervising Contractor performs, directs,
13 or supervises any Work under this Consent Decree.

14 b. If EPA disapproves a proposed Supervising
15 Contractor, EPA will notify the City in writing. The City shall
16 submit to EPA a list of contractors, including the
17 qualifications of each contractor, that would be acceptable to it
18 within thirty (30) days of receipt of EPA's disapproval of the
19 contractor previously proposed. EPA will provide written notice
20 of the names of any contractor(s) that it disapproves and an
21 authorization to proceed with respect to any of the other
22 contractors. The City may select any contractor from that list
23 that is not disapproved and shall notify EPA of the name of the
24 contractor selected within twenty one (21) days of EPA's
25 authorization to proceed.

26 c. If EPA fails to provide written notice of its
27 authorization to proceed or disapproval as provided in this
28 Paragraph and this failure prevents the City from meeting one or

1 more deadlines in a plan approved by the EPA pursuant to this
2 Consent Decree, the City may seek relief under the provisions of
3 Section XVIII (Force Majeure) herein.

4 11. Remedial Action for OU1

5 a. The City agreed to perform remedial design for OU1
6 pursuant to Administrative Order on Consent ("AOC"), U.S. EPA
7 Docket No. 94-07, effective December 1993. EPA and the United
8 States hereby agree that the requirements of the approved
9 Remedial Design, which is appended to said AOC, will become an
10 enforceable part of this Consent Decree on the effective date of
11 this Consent Decree, and that all other requirements of said AOC
12 will be superseded by the requirements of this Consent Decree, as
13 of the effective date of this Consent Decree. The Remedial
14 Design for OU1 has been completed by the City and approved by
15 EPA.

16 b. Within eight weeks after the lodging of this Consent
17 Decree, the City shall submit to EPA and the State, a Work Plan
18 for the performance of the Remedial Action for OU1 (hereinafter
19 referred to as "Remedial Action Work Plan."). The Remedial
20 Action Work Plan shall provide for construction and
21 implementation of the remedy set forth in the OU1 ROD, and
22 achievement of the Performance Standards, in accordance with this
23 Consent Decree, the OU1 ROD, the SOW, and the design plans and
24 specifications developed in accordance with the Remedial Design
25 for OU1 approved by EPA. Upon approval by EPA, the Remedial
26 Action Work Plan shall be incorporated into and become
27 enforceable under this Consent Decree. At the same time as it
28 submits the Remedial Action Work Plan, the City shall submit to

1 EPA and the State a Health and Safety Plan for field activities
2 required by the Remedial Action Work Plan which conform to the
3 applicable Occupational Safety and Health Administration and EPA
4 requirements including, but not limited to, 29 CFR 1910.120.

5 c. The Remedial Action Work Plan shall include those
6 activities and deliverables identified in the SOW for OU1 and
7 upon approval by EPA, shall be incorporated into and become
8 enforceable under this Consent Decree.

9 d. The comprehensive schedule for the entire project
10 identified in the Remedial Action Work Plan and approved by EPA
11 becomes enforceable under this Consent Decree.

12 e. Upon approval of the Remedial Action Work Plan by
13 EPA, after a reasonable opportunity for review and comment by the
14 State, the City shall implement the activities required under the
15 Remedial Action Work Plan. The City shall submit to EPA and the
16 State all plans, submittals, or other deliverables required under
17 the approved Remedial Action Work Plan in accordance with the
18 approved schedule for review and approval pursuant to Section XI
19 (EPA approval of Plans and Other Submissions). Unless otherwise
20 approved by EPA, the City shall not commence physical Remedial
21 Action activities at OU1 prior to approval of the Remedial Action
22 Work Plan.

23 12. Remedial Design/ Remedial Action for OU2

24 a. Within twelve weeks after the lodging of this
25 Consent Decree, the City shall submit to EPA and the State, a
26 Work Plan for the performance of the Remedial Design and Remedial
27 Action for OU2 (hereinafter referred to as "Remedial
28 Design/Remedial Action Report"). The Remedial Design/Remedial

1 Action Report shall provide for the design elements and
2 construction and implementation of the remedy set forth in the
3 OU2 ROD and achievement of the Performance Standard, in
4 accordance with this Consent Decree, the OU2 ROD, and the SOW for
5 OU2. Upon approval by EPA, the Remedial Design/Remedial Action
6 Report shall be incorporated into and become enforceable under
7 this Consent Decree.

8 b. The Remedial Design/Remedial Action Report shall
9 include the activities and deliverables identified in the SOW for
10 OU2 and upon approval by EPA, shall be incorporated into and
11 become enforceable under this Consent Decree.

12 c. The comprehensive schedule for the entire project
13 identified in the Remedial Design/Remedial Action Report for OU2
14 and approved by EPA becomes enforceable under this Decree.

15 d. Upon approval of the Remedial Design/Remedial Action
16 Report by EPA, after a reasonable opportunity for review and
17 comment by the State, the City shall implement the activities
18 required under the Remedial Design Report. The City shall submit
19 to EPA and the State all plans, submittals, or other deliverables
20 required under the approved Remedial Design Report in accordance
21 with the approved schedule for review and approval pursuant to
22 Section XI (EPA approval of Plans and Other Submissions). Unless
23 otherwise approved by EPA, the City shall not commence physical
24 Remedial Action activities at OU2 prior to approval of the
25 Remedial Design Report. Such approval shall not be unreasonably
26 withheld by EPA.

27 13. The City shall continue to implement the Remedial
28 Actions and O&M for OU1 and OU2 until the Performance Standards

1 are achieved and for so long thereafter as is otherwise required
2 under this Consent Decree.

3 14. Modification of the SOW or Related Work Plans.

4 a. If EPA determines that modification to the work
5 specified in the SOWs and/or in work plans developed pursuant to
6 the SOWs is necessary to achieve and maintain the Performance
7 Standards or to carry out and maintain the effectiveness of the
8 remedy set forth in the RODs, EPA may require that such
9 modification be incorporated in the SOWs and/or such work plans.
10 Provided, however, that a modification may only be required
11 pursuant to this Paragraph to the extent that it is consistent
12 with the scope of the remedy selected in the RODs.

13 b. For the purposes of this Paragraph 14 and
14 Paragraphs 48 and 49 only, the "scope of the remedy selected in
15 the RODs" are: for OU1: containing subsurface migration, surface
16 emissions of landfill gas, leachate generation and migration, and
17 erosion and transport of waste materials; for OU2: phased
18 remediation of the contaminated groundwater, with phase one
19 containing the contaminated groundwater underneath the landfill
20 by installing pumping wells along the perimeter of the landfill,
21 phase two preventing the spread of the groundwater plume into the
22 clean portions of the aquifer, and phase three reducing the
23 contaminant levels at the contained groundwater plume to maximum
24 contaminant levels ("MCLs") by pump and treat, unless shown to be
25 technically impracticable.

26 c. If the City objects to any modification determined
27 by EPA to be necessary pursuant to this Paragraph, it may seek
28 dispute resolution pursuant to Section XIX (Dispute Resolution),

1 Paragraph 65 (record review). The SOW and/or related work plans
2 shall be modified in accordance with final resolution of the
3 dispute.

4 d. The City shall implement any work required by any
5 modifications incorporated in the SOW and/or in work plans
6 developed pursuant to the SOWs in accordance with this
7 Paragraph. Nothing in this Paragraph shall be construed to limit
8 EPA's authority to require performance of further response
9 actions as otherwise provided in this Consent Decree.

10 15. The City acknowledges and agrees that nothing in this
11 Consent Decree, the SOWs, or the Remedial Actions Work Plans
12 constitutes a warranty or representation of any kind by Plaintiff
13 that compliance with the work requirements set forth in the SOWs
14 and the Work Plans will achieve the Performance Standards. .

15 16. The City shall, prior to any off-Site shipment of Waste
16 Material from the Site to an out-of-state waste management
17 facility, provide written notification to the appropriate state
18 environmental official in the receiving facility's state and to
19 the EPA Project Coordinator of such shipment of Waste Material.
20 However, this notification requirement shall not apply to any
21 off-Site shipments when the total volume of all such shipments
22 will not exceed 10 cubic yards.

23 a. The City shall include in the written notification
24 the following information, where available: (1) the name and
25 location of the facility to which the Waste Material is to be
26 shipped; (2) the type and quantity of the Waste Material to be
27 shipped; (3) the expected schedule for the shipment of the Waste
28 Material; and (4) the method of transportation. The City shall

1 20. The City's Obligation To Perform Further Response
2 Actions. If EPA selects further response actions for the Site,
3 the City shall undertake such further response actions to the
4 extent that the reopener conditions in Paragraph 81 or Paragraph
5 82 (United States' reservations of liability based on unknown
6 conditions or new information) are satisfied. The City may
7 invoke the procedures set forth in Section XIX (Dispute
8 Resolution) to dispute (1) EPA's determination that the reopener
9 conditions of Paragraph 81 or Paragraph 82 of Section XXI
10 (Covenants Not To Sue by Plaintiff[s]) are satisfied, (2) EPA's
11 determination that the Remedial Actions are not protective of
12 human health and the environment, or (3) EPA's selection of
13 further response actions. Disputes pertaining to whether the
14 Remedial Actions are protective or to EPA's selection of further
15 response actions shall be resolved pursuant to Paragraph 65
16 (record review).

17 21. Submissions of Plans. If the City is required to
18 perform further response actions pursuant to Paragraph 20, it
19 shall submit a plan for such work to EPA for approval in
20 accordance with the procedures set forth in Section VI
21 (Performance of the Work by the City) and shall implement the
22 plan approved by EPA in accordance with the provisions of this
23 Decree.

24 VIII. QUALITY ASSURANCE, SAMPLING, and DATA ANALYSIS

25 22. The City shall use quality assurance, quality control,
26 and chain of custody procedures for all treatability, design,
27 compliance and monitoring samples in accordance with "EPA
28 Requirements for Quality Assurance Project Plans for

1 Environmental Data Operation," (EPA QA/R5; "Preparing Perfect
2 Project Plans," (EPA /600/9-88/087), and subsequent amendments
3 to such guidelines upon notification by EPA to the City of such
4 amendment. Amended guidelines shall apply only to procedures
5 conducted after such notification. Prior to the commencement of
6 any monitoring project under this Consent Decree, the City shall
7 submit to EPA for approval, after a reasonable opportunity for
8 review and comment by the State, a Quality Assurance Project Plan
9 ("QAPP") that is consistent with the SOWs, the NCP and applicable
10 guidance documents. If relevant to the proceeding, the Parties
11 agree that validated sampling data generated in accordance with
12 the QAPP, and reviewed and approved by EPA shall be admissible as
13 evidence, without objection, in any proceeding under this Decree.
14 The City shall ensure that EPA and State personnel and their
15 authorized representatives are allowed access at reasonable times
16 to all laboratories utilized by the City in implementing this
17 Consent Decree. In addition, the City shall ensure that such
18 laboratories shall analyze all samples submitted by EPA pursuant
19 to the QAPP for quality assurance monitoring. The City shall
20 ensure that the laboratories, which it utilizes for the analysis
21 of samples taken pursuant to this Decree, perform all analyses
22 according to accepted EPA methods. Accepted EPA methods consist
23 of those methods which are documented in the "Contract Lab
24 Program Statement of Work for Inorganic Analysis" and the
25 "Contract Lab Program Statement of Work for Organic Analysis,"
26 dated February 1988, and any amendments made thereto during the
27 course of the implementation of this Decree. The City shall
28 ensure that all laboratories it uses for analysis of samples

1 taken pursuant to this Consent Decree participate in an EPA or
2 EPA-equivalent QA/QC program. The City shall ensure that all
3 field methodologies utilized in collecting samples for subsequent
4 analysis pursuant to this Decree will be conducted in accordance
5 with the procedures set forth in the QAPP approved by EPA.

6 23. Upon request, the City shall allow split or duplicate
7 samples to be taken by EPA and the State or their authorized
8 representatives. The City shall notify EPA and the State not
9 fewer than twenty eight (28) days in advance of any sample
10 collection activity, unless shorter notice is agreed to by EPA.
11 In addition, EPA and the State shall have the right to take any
12 additional samples that EPA or the State deem necessary. Upon
13 request, EPA and the State shall allow the City to take split
14 or duplicate samples of any samples they take as part of the
15 Plaintiff's oversight of the City's implementation of the Work.

16 24. The City shall submit to EPA and the State two copies
17 of the results of all sampling and/or tests or other data
18 obtained or generated by or on behalf of the City with respect to
19 the Site and/or the implementation of this Consent Decree, unless
20 EPA agrees otherwise.

21 25. Notwithstanding any provision of this Consent Decree,
22 the United States hereby retains all of its information gathering
23 and inspection authorities and rights, including enforcement
24 actions related thereto, under CERCLA, RCRA and any other
25 applicable statutes or regulations.

26 IX. ACCESS AND INSTITUTIONAL CONTROLS

27 26. Commencing upon the date of lodging of this Consent
28 Decree, the City agrees to provide the United States and the

1 State and their representatives, including EPA and its
2 contractors, upon reasonable notice, access at all reasonable
3 times to the Site and any other property to which access is
4 required for the implementation of this Consent Decree, to the
5 extent access to the property is controlled by the City, for the
6 purposes of conducting any activity related to this Consent
7 Decree including, but not limited to:

- 8 a. Monitoring the Work;
- 9 b. Verifying any data or information submitted to the
10 United States;
- 11 c. Conducting investigations relating to
12 contamination at or near the Site;
- 13 d. Obtaining samples;
- 14 e. Assessing the need for, planning of, or
15 implementation of additional response actions at or near the
16 Site;
- 17 f. Inspecting and copying records, operating logs,
18 contracts, or other documents maintained or generated by the City
19 or its agents, consistent with Section XXIV; and
- 20 g. Assessing the City's compliance with this Consent
21 Decree.

22 27. To the extent that the Site or any other property to
23 which access is required for the implementation of this Consent
24 Decree is owned or controlled by persons other than the City, the
25 City shall use best efforts to secure from such persons access
26 for the City, as well as for the United States and the State and
27 their representatives, including, but not limited to, its
28 contractors, as necessary to effectuate this Consent Decree. For

1 purposes of this Paragraph, "best efforts" includes the payment
2 of reasonable sums of money in consideration of access. If,
3 after best efforts by the City, any access required to complete
4 the Work is not obtained within forty five (45) days of the date
5 of lodging of this Consent Decree, or within forty five (45) days
6 of the date EPA notifies the City in writing that additional
7 access beyond that previously secured is necessary, the City
8 shall promptly notify the United States in writing, and shall
9 include in that notification a summary of the steps the City has
10 taken to attempt to obtain access. The United States or the
11 State may, as it deems appropriate, assist the City in obtaining
12 access. The City shall reimburse the United States or the State
13 in accordance with the procedures in Section XVI (Reimbursement
14 of Response Costs), for all costs incurred by the United States
15 in obtaining access.

16 28. Notwithstanding any provision of this Consent Decree,
17 the United States retains all of its access authorities and
18 rights, including enforcement authorities related thereto, under
19 CERCLA, RCRA and any other applicable statute or regulations.

20 X. REPORTING REQUIREMENTS

21 29. In addition to any other requirement of this Consent
22 Decree, the City shall submit to EPA and the State two copies of
23 written monthly progress reports that: (a) describe the actions
24 which have been taken toward achieving compliance with this
25 Consent Decree during the previous month; (b) include a summary
26 of all results of sampling and tests and all other data received
27 or generated by the City or its contractors or agents in the
28 previous month; (c) identify all work plans, plans and other

1 deliverables required by this Consent Decree completed and
2 submitted during the previous month; (d) describe all actions,
3 including, but not limited to, data collection and implementation
4 of work plans, which are scheduled for the next six weeks and
5 provide other information relating to the progress of
6 construction, including, but not limited to, critical path
7 diagrams, Gantt charts and Pert charts; (e) include information
8 regarding percentage of completion, unresolved delays encountered
9 or anticipated that may affect the future schedule for
10 implementation of the Work, and a description of efforts made to
11 mitigate those delays or anticipated delays; (f) include any
12 modifications to the work plans or other schedules that the City
13 has proposed to EPA or that have been approved by EPA; and (g)
14 describe all activities undertaken in support of the Community
15 Relations Plan during the previous month and those to be
16 undertaken in the next six weeks. The City shall submit these
17 progress reports to EPA and the State by the tenth day of every
18 month following the lodging of this Consent Decree until EPA
19 notifies the City pursuant to Paragraph 49.b of Section XIV
20 (Certification of Completion). During Operation and Maintenance,
21 the City shall submit progress reports annually for OU1 and semi-
22 annually for OU2. If requested by EPA or the State, the City
23 shall also provide briefings for EPA to discuss the progress of
24 the Work.

25 30. The City shall notify EPA of any change in the schedule
26 described in the monthly progress report for the performance of
27 any activity, including, but not limited to, data collection and
28 implementation of work plans, no later than seven (7) days prior

1 to the performance of the activity.

2 31. Upon the occurrence of any event during performance of
3 the Work that the City is required to report pursuant to Section
4 103 of CERCLA or Section 304 of the Emergency Planning and
5 Community Right-to-Know Act (EPCRA). The City shall within
6 twenty four (24) hours of the onset of such event, orally notify
7 the EPA Project Coordinator or the Alternate EPA Project
8 Coordinator (in the event of the unavailability of the EPA
9 Project Coordinator), or, in the event that neither the EPA
10 Project Coordinator nor Alternate EPA Project Coordinator is
11 available, the Emergency Response Section, Region 9, United
12 States Environmental Protection Agency. These reporting
13 requirements are in addition to the reporting required by CERCLA
14 Section 103 or EPCRA Section 304.

15 32. Within twenty (20) days of the onset of such an event,
16 the City shall furnish to Plaintiff a written report, signed by
17 the City's Project Coordinator, setting forth the events which
18 occurred and the measures taken, and to be taken, in response
19 thereto. Within thirty (30) days of the conclusion of such an
20 event, the City shall submit a report setting forth all actions
21 taken in response thereto.

22 33. The City shall submit two copies of all plans, reports,
23 and data required by the SOWs, the Remedial Actions Work Plans,
24 or any other approved plans to EPA in accordance with the
25 schedules set forth in such plans.

26 34. All reports and other documents submitted by the City
27 to EPA (other than the monthly progress reports referred to
28 above) which purport to document the City's compliance with the

1 terms of this Consent Decree shall be signed by an authorized
2 representative of the City, who shall be designated in writing by
3 the City's governing body.

4 XI. EPA APPROVAL OF PLANS AND OTHER SUBMISSIONS

5 35. After review of any plan, report or other item which is
6 required to be submitted for approval pursuant to this Consent
7 Decree, EPA, after reasonable opportunity for review and comment
8 by the State, shall: (a) approve, in whole or in part, the
9 submission; (b) approve the submission upon specified conditions;
10 modify the submission to cure the deficiencies; or (d)
11 disapprove, in whole or in part, the submission, directing that
12 the City modify the submission. However, EPA shall not modify a
13 submission without first providing the City at least one notice
14 of deficiency and an opportunity to cure within three weeks,
15 except where to do so would cause serious disruption to the Work
16 or where previous submission(s) have been disapproved due to
17 material defects and the deficiencies in the submission under
18 consideration indicate a bad faith lack of effort to submit an
19 acceptable deliverable.

20 36. In the event of approval, approval upon conditions, or
21 modification by EPA, pursuant to Paragraph 35(a), (b), or (c),
22 the City shall proceed to take any action required by the plan,
23 report, or other item, as approved or modified by EPA subject
24 only to its right to invoke the Dispute Resolution procedures set
25 forth in Section XIX (Dispute Resolution) with respect to the
26 modifications or conditions made by EPA. In the event that EPA
27 modifies a submission to cure deficiencies in the original
28 submission by following the procedure set forth in Paragraph

1 35(c), if the original submission had a material defect, EPA
2 retains its right to seek stipulated penalties, as provided in
3 Section XX (Stipulated Penalties).

4 37. a. Upon receipt of a notice of disapproval pursuant
5 to Paragraph 35(d), the City shall, within three weeks or such
6 longer time as specified by EPA in such notice, correct the
7 deficiencies and resubmit the plan, report, or other item for
8 approval. Any stipulated penalties applicable to the submission,
9 as provided in Section XX, shall accrue during the three-week
10 period or otherwise specified period but shall not be payable
11 unless the resubmission is disapproved or modified due to a
12 material defect as provided in Paragraphs 38 and 39.

13 b. Notwithstanding the receipt of a notice of
14 disapproval pursuant to Paragraph 35(d), the City shall proceed,
15 at the direction of EPA, to take any action required by any non-
16 deficient portion of the submission. Implementation of any non-
17 deficient portion of a submission shall not relieve the City of
18 any liability for stipulated penalties under Section XX
19 (Stipulated Penalties).

20 38. In the event that a resubmitted plan, report or other
21 item, or portion thereof, is disapproved by EPA, EPA may again
22 require the City to correct the deficiencies, in accordance with
23 the preceding Paragraphs. EPA also retains the right to modify
24 or develop the plan, report or other item. The City shall
25 implement any such plan, report, or item as modified or developed
26 by EPA, subject only to its right to invoke the procedures set
27 forth in Section XIX (Dispute Resolution).

28 39. If upon resubmission, a plan, report, or item is

1 disapproved or modified by EPA due to a material defect, the City
2 shall be deemed to have failed to submit such plan, report, or
3 item timely and adequately unless the City invokes the dispute
4 resolution procedures set forth in Section XIX (Dispute
5 Resolution) and EPA's action is overturned pursuant to that
6 Section. The provisions of Section XIX (Dispute Resolution) and
7 Section XX (Stipulated Penalties) shall govern the implementation
8 of the Work, as well as accrual and payment of any stipulated
9 penalties during Dispute Resolution. If EPA's disapproval or
10 modification is upheld, stipulated penalties shall accrue for
11 such violation from the date on which the initial submission was
12 originally required, as provided in Section XX.

13 40. All plans, reports, and other items required to be
14 submitted to EPA under this Consent Decree shall, upon approval
15 or modification by EPA, be enforceable under this Consent Decree.
16 In the event EPA approves or modifies a portion of a plan,
17 report, or other item required to be submitted to EPA under this
18 Consent Decree, the approved or modified portion shall be
19 enforceable under this Consent Decree.

20 XII. PROJECT COORDINATORS

21 41. Within twenty (20) days of lodging this Consent Decree,
22 the City and EPA will notify each other, in writing, of the name,
23 address and telephone number of their respective designated
24 Project Coordinators and Alternate Project Coordinators. If a
25 Project Coordinator or Alternate Project Coordinator initially
26 designated is changed, the identity of the successor will be
27 given to the other Parties at least five (5) working days before
28 the changes occur, unless impracticable, but in no event later

1 than the actual day the change is made. The City's Project
2 Coordinator shall be subject to disapproval by EPA and shall have
3 the technical expertise sufficient to oversee all aspects of the
4 Work adequately. The City's Project Coordinator shall not be an
5 attorney for the City in this matter. He or she may assign other
6 representatives, including other contractors, to serve as a Site
7 representative for oversight of performance of daily operations
8 during remedial activities.

9 42. Plaintiff may designate other representatives,
10 including, but not limited to, EPA and State employees, and
11 federal and State contractors and consultants, to observe and
12 monitor the progress of any activity undertaken pursuant to this
13 Consent Decree. EPA's Project Coordinator and Alternate Project
14 Coordinator shall have the authority lawfully vested in a
15 Remedial Project Manager (RPM) and an On-Scene Coordinator (OSC)
16 by the National Contingency Plan, 40 C.F.R. Part 300. In
17 addition, EPA's Project Coordinator or Alternate Project
18 Coordinator shall have authority, consistent with the National
19 Contingency Plan, to halt any Work required by this Consent
20 Decree and to take any necessary response action when s/he
21 determines that conditions at the Site constitute an emergency
22 situation or may present an immediate threat to public health or
23 welfare or the environment due to release or threatened release
24 of Waste Material. The City may dispute the decision when to
25 restart the Work halted by EPA's Project Coordinator or Alternate
26 Project Coordinator.

27 43. EPA's Project Coordinator and the City's Project
28 Coordinator will confer, at a minimum, on a monthly basis.

1 XIII. ASSURANCE OF ABILITY TO COMPLETE WORK

2 44. Within thirty (30) days of entry of this Consent
3 Decree, the City shall certify that it has the financial ability
4 to complete the total estimated cost of the Work remaining to be
5 performed by demonstrating that the City satisfies the
6 requirements of 40 C.F. R. Part 254.143)f), or in one or more of
7 the following forms:

8 a. Internal financial information to allow EPA to
9 determine that the City has sufficient assets available to
10 perform the work;

11 b. A surety bond guaranteeing performance of the
12 Work;

13 c. One or more irrevocable letters of credit equal to
14 the total estimated cost of the Work;

15 d. A trust fund;

16 45. If the City can show that the estimated cost to
17 complete the remaining Work has diminished below the amount set
18 forth in Paragraph 44 above after entry of this Consent Decree,
19 the City may, on any anniversary date of entry of this Consent
20 Decree, or at any other time agreed to by the Parties, reduce the
21 amount of the financial security provided under this Section to
22 the estimated cost of the remaining work to be performed. The
23 City shall submit a proposal for such reduction to EPA, in
24 accordance with the requirements of this Section, and may reduce
25 the amount of the security upon approval by EPA. In the event of
26 a dispute, the City may reduce the amount of the security in
27 accordance with the final administrative or judicial decision
28 resolving the dispute.

1 46. The City may change the form of financial assurance
2 provided under this Section at any time, upon notice to and
3 approval by EPA, provided that the new form of assurance meets
4 the requirements of this Section. In the event of a dispute, the
5 City may change the form of the financial assurance only in
6 accordance with the final administrative or judicial decision
7 resolving the dispute.

8 47. The City shall resubmit sworn statements certifying
9 assurance of ability to complete the Work annually, on the
10 anniversary of the effective date of this Consent Decree. In the
11 event that EPA determines at any time that the financial
12 assurances provided pursuant to this Section are inadequate, the
13 City shall, within thirty (30) days of receipt of notice of EPA's
14 determination, obtain and present to EPA for approval another
15 form or forms of financial assurance required by EPA. The City's
16 inability to demonstrate financial ability to complete the Work
17 shall not excuse performance of any activities required under
18 this Consent Decree.

19 XIV. CERTIFICATION OF COMPLETION

20 48. Completion of the Remedial Action

21 a. Within ninety (90) days after the City concludes
22 that the Remedial Actions have been fully performed and the
23 Performance Standards have been attained, the City shall schedule
24 and conduct a pre-certification inspection to be attended by the
25 City, EPA and the State. If, after the pre-certification
26 inspection, the City still believes that the Remedial Actions
27 have been fully performed and the Performance Standards have been
28 attained, it shall submit a written report requesting

1 certification to EPA for approval, with a copy to the State,
2 pursuant to Section XI (EPA Approval of Plans and Other
3 Submissions) within thirty (30) days of the inspection. In the
4 report, a registered professional engineer and the City's Project
5 Coordinator shall state that the Remedial Actions have been
6 completed in full satisfaction of the requirements of this
7 Consent Decree. The written report shall include as-built
8 drawings signed and stamped by a professional engineer. The
9 report shall contain the following statement, signed by a
10 responsible official who shall be designated in writing by the
11 governing body of the City, or the City's Project Coordinator:

12 "To the best of my knowledge, after thorough
13 investigation, I certify that the information contained
14 in or accompanying this submission is true, accurate
15 and complete. I am aware that there are significant
penalties for submitting false information, including
the possibility of fine and imprisonment for knowing
violations."

16 If, after completion of the pre-certification inspection and
17 receipt and review of the written report, EPA, after reasonable
18 opportunity to review and comment by the State, determines that
19 the Remedial Actions or any portion thereof have not been
20 completed in accordance with this Consent Decree or that the
21 Performance Standards have not been achieved, EPA will notify the
22 City in writing of the activities that must be undertaken by the
23 City pursuant to this Consent Decree to complete the Remedial
24 Actions and achieve the Performance Standards. Provided,
25 however, that EPA may only require the City to perform such
26 activities pursuant to this Paragraph to the extent that such
27 activities are consistent with the "scope of the remedy selected
28 in the RODs," as that term is defined in Paragraph 14.b. EPA

1 will set forth in the notice a schedule for performance of such
2 activities consistent with the Consent Decree and the SOWs or
3 require the City to submit a schedule to EPA for approval
4 pursuant to Section XI (EPA Approval of Plans and Other
5 Submissions). The City shall perform all activities described in
6 the notice in accordance with the specifications and schedules
7 established pursuant to this Paragraph, subject to its right to
8 invoke the dispute resolution procedures set forth in Section XIX
9 (Dispute Resolution).

10 b. If EPA concludes, based on the initial or any
11 subsequent report requesting Certification of Completion that the
12 Remedial Actions have been performed in accordance with this
13 Consent Decree and that the Performance Standards have been
14 achieved, EPA, within a reasonable time, will so certify in
15 writing to the City. Certification of Completion for OU2 shall
16 constitute the Certification of Completion of the Remedial
17 Actions for this Site for purposes of this Consent Decree,
18 including, but not limited to, Section XXI (Covenants Not to Sue
19 by Plaintiff). Certification of Completion of the Remedial
20 Actions shall not affect the City's obligations under this
21 Consent Decree.

22 49. Completion of the Work

23 a. Within ninety (90) days after the City concludes
24 that all phases of the Work (including O & M), have been fully
25 performed, the City shall schedule and conduct a pre-
26 certification inspection to be attended by the City, EPA and the
27 State. If, after the pre-certification inspection, the City
28 still believes that the Work has been fully performed, the City

1 shall submit a written report by a registered professional
2 engineer stating that the Work has been completed in full
3 satisfaction of the requirements of this Consent Decree. The
4 report shall contain the following statement, signed by a
5 responsible official who shall be designated in writing by the
6 governing body of the City, or the City's Project Coordinator:

7 "To the best of my knowledge, after thorough
8 investigation, I certify that the information contained
9 in or accompanying this submission is true, accurate
10 and complete. I am aware that there are significant
penalties for submitting false information, including
the possibility of fine and imprisonment for knowing
violations."

11 If, after review of the written report, EPA, after reasonable
12 opportunity to review and comment by the State, determines that
13 any portion of the Work has not been completed in accordance with
14 this Consent Decree, EPA will notify the City in writing of the
15 activities that must be undertaken by the City pursuant to this
16 Consent Decree to complete the Work. Provided, however, that EPA
17 may only require the City to perform such activities pursuant to
18 this Paragraph to the extent that such activities are consistent
19 with the "scope of the remedy selected in the ROD," as that term
20 is defined in Paragraph 14.b. EPA will set forth in the notice
21 a schedule for performance of such activities consistent with the
22 Consent Decree and the SOWs or require the City to submit a
23 schedule to EPA for approval pursuant to Section XI (EPA Approval
24 of Plans and Other Submissions). The City shall perform all
25 activities described in the notice in accordance with the
26 specifications and schedules established therein, subject to its
27 right to invoke the dispute resolution procedures set forth in
28 Section XIX (Dispute Resolution).

1 b. If EPA concludes, based on the initial or any
2 subsequent request for Certification of Completion by the City
3 and after a reasonable opportunity for review and comment by the
4 State, that the Work has been performed in accordance with this
5 Consent Decree, EPA, within a reasonable time, will so notify the
6 City in writing.

7 XV. EMERGENCY RESPONSE

8 50. In the event any action or occurrence arising out of
9 the performance of the Work causes or threatens a release of
10 Waste Material from the Site that constitutes an emergency
11 situation or may present an immediate threat to public health or
12 welfare or the environment, the City shall, subject to Paragraph
13 51, immediately take all appropriate action to prevent, abate, or
14 minimize such release or threat of release, and shall immediately
15 notify the EPA's Project Coordinator, or, if the Project
16 Coordinator is unavailable, EPA's Alternate Project Coordinator.
17 If neither of these persons is available, the City shall notify
18 the EPA Emergency Response Unit, Region 9. The City shall take
19 such actions in consultation with EPA's Project Coordinator or
20 other available authorized EPA officer and in accordance with all
21 applicable provisions of the Health and Safety Plans, the
22 Contingency Plans, and any other applicable plans or documents
23 developed pursuant to the SOWs. In the event that the City
24 fails to take appropriate response action as required by this
25 Section, and EPA or, as appropriate, the State takes such action
26 instead, the City shall reimburse EPA and the State all costs of
27 the response action not inconsistent with the NCP pursuant to
28 Section XVI (Reimbursement of Response Costs).

1 51. Nothing in the preceding Paragraph or in this Consent
2 Decree shall be deemed to limit any authority of the United
3 States a) to take all appropriate action to protect human health
4 and the environment or to prevent, abate, respond to, or minimize
5 an actual or threatened release of Waste Material on, at, or from
6 the Site, or b) to direct or order such action, or seek an order
7 from the Court, to protect human health and the environment or to
8 prevent, abate, respond to, or minimize an actual or threatened
9 release of Waste Material on, at, or from the Site, subject to
10 Section XXI (Covenants Not to Sue by Plaintiff).

11 XVI. REIMBURSEMENT OF RESPONSE COSTS

12 52. The City shall:

13 a. Within thrity (30) days of the effective date of
14 this Consent Decree, Reimburse the EPA Hazardous Substance
15 Superfund for all Past Response Cost in the amount of Four
16 Hundred Fifty Four Thousand Five Hundred Ninety Nine Dollars and
17 fifteen cents (\$454,599.15)

18 b. Reimburse the EPA Hazardous Substance Superfund
19 for all Future Response Costs not inconsistent with the National
20 Contingency Plan. The United States will send the City a bill,
21 on an annual basis, requiring payment. The bill shall include a
22 Summary of Cost Information or an equivalent summary, which
23 includes direct and indirect costs incurred by EPA, DOJ and EPA's
24 contractors. The City shall make all payments within twelve
25 weeks of the City's receipt of each bill requiring payment,
26 except as otherwise provided in Paragraph 53.

27 c. The City shall make all payments required by this
28 Paragraph in the form of a certified or cashier's check or checks

1 made payable to "EPA Hazardous Substance Superfund" and
2 referencing the EPA Region and Site/Spill ID #09-H7, the DOJ case
3 number 90-11-2-1203 and the name and address of the party making
4 payment. The City shall send the check(s) to:

5 United States Environmental Protection Agency
6 Region IX
7 Superfund Accounting
8 P.O. Box 360863M
9 Pittsburgh, PA 15251
10 Attn: Collection Officer for Superfund

11 The City shall send copies of the check(s) to the United States
12 and to the EPA Project Coordinator as specified in Section XXVI
13 (Notices and Submissions).

14 53. The City may contest payment of any Future Response
15 Costs under Paragraph 52 if it determines that the United States
16 has made an accounting error or if it alleges that a cost item
17 that is included represents costs that are inconsistent with the
18 NCP. Such objection shall be made in writing within thirty (30)
19 days of receipt of the bill and must be sent to the United States
20 pursuant to Section XXVI (Notices and Submissions). Any such
21 objection shall specifically identify the contested Future
22 Response Costs and the basis for objection. In the event of an
23 objection, the City shall within the thirty (30) day period pay
24 all uncontested Future Response Costs to the United States in
25 the manner described in Paragraph 52. The City shall send to the
26 United States, as provided in Section XXVI (Notices and
27 Submissions), a copy of the transmittal letter and check paying
28 the uncontested Future Response Costs. Simultaneously, the City
shall initiate the Dispute Resolution procedures in Section XIX
(Dispute Resolution) for the contested Future Response Costs. If

1 the United States prevails in the dispute, within five (5) days
2 of the resolution of the dispute, the City shall pay the sums due
3 (with accrued interest) to the United States in the manner
4 described in Paragraph 53. If the City prevails concerning any
5 aspect of the contested costs, the City shall pay that portion of
6 the costs (plus associated accrued interest) for which it did not
7 prevail to the United States in the manner described in
8 Paragraph 53. The dispute resolution procedures set forth in
9 this Paragraph in conjunction with the procedures set forth in
10 Section XIX (Dispute Resolution) shall be the exclusive
11 mechanisms for resolving disputes regarding the City's obligation
12 to reimburse the United States for its Future Response Costs.

13 54. In the event that the payments required by Paragraph 52
14 are not made within twelve weeks of the City's receipt of the
15 bill, the City shall pay Interest on the unpaid balance. The
16 Interest on Future Response Costs shall begin to accrue on the
17 date of the bill. The Interest shall accrue through the date of
18 the City's payment. Payments of Interest made under this
19 Paragraph shall be in addition to such other remedies or
20 sanctions available to Plaintiffs by virtue of the City's failure
21 to make timely payments under this Section. The City shall make
22 all payments required by this Paragraph in the manner described
23 in Paragraph 52.

24 XVII. INDEMNIFICATION AND INSURANCE

25 55. a. The United States does not assume any liability by
26 entering into this agreement or by virtue of any designation of
27 the City as EPA's authorized representatives under Section 104(e)
28 of CERCLA. The City shall indemnify, save and hold harmless the

1 United States and its officials, agents, employees, contractors,
2 subcontractors, or representatives for or from any and all claims
3 or causes of action arising from, or on account of, negligent or
4 other wrongful acts or omissions of the City, its officers,
5 directors, employees, agents, contractors, subcontractors, and
6 any persons acting on its behalf or under its control, in
7 carrying out activities pursuant to this Consent Decree,
8 including, but not limited to, any claims arising from any
9 designation of the City as EPA's authorized representatives under
10 Section 104(e) of CERCLA. Further, the City agrees to pay the
11 United States all reasonable costs it incurs including, but not
12 limited to, attorneys fees and other expenses of litigation and
13 settlement arising from, or on account of, claims made against
14 the United States based on negligent or other wrongful acts or
15 omissions of the City, its officers, directors, employees,
16 agents, contractors, subcontractors, and any persons acting on
17 its behalf or under its control, in carrying out activities
18 pursuant to this Consent Decree. The United States shall not be
19 held out as a party to any contract entered into by or on behalf
20 of the City in carrying out activities pursuant to this Consent
21 Decree. Neither the City nor any such contractor shall be
22 considered an agent of the United States.

23 b. The United States shall give the City notice of
24 any claim for which the United States plans to seek
25 indemnification pursuant to Paragraph 55.a., and shall consult
26 with the City prior to settling such claim.

27 56. The City waives all claims against the United States
28 for damages or reimbursement, or for set-off of any payments made

1 or to be made to the United States, arising from or on account of
2 any contract, agreement, or arrangement between the City and any
3 person for performance of Work on or relating to the Site,
4 including, but not limited to, claims on account of construction
5 delays. In addition, the City shall indemnify and hold harmless
6 the United States with respect to any and all claims for damages
7 or reimbursement arising from or on account of any contract,
8 agreement, or arrangement between the City and any person for
9 performance of Work on or relating to the Site, including, but
10 not limited to, claims on account of construction delays.

11 57. No later than two weeks before commencing any on-site
12 Work, the City shall certify to EPA of its ability and practice
13 to act as its self-insurer, and provide comprehensive general
14 liability, including automobile liability, insurance with limits
15 of up to two and one-half million dollars, naming the United
16 States as an additional insured. The City shall make this
17 certification of self-insurance annually, until the first
18 anniversary of EPA's Certification of Completion of the Remedial
19 Actions pursuant to Paragraph 48.b. of Section XIV (Certification
20 of Completion) In addition, for the duration of this Consent
21 Decree, the City shall satisfy, or shall ensure that its
22 contractors or subcontractors satisfy, all applicable laws and
23 regulations regarding the provision of worker's compensation
24 insurance for all persons performing the Work on behalf of the
25 City in furtherance of this Consent Decree. Prior to
26 commencement of the Work under this Consent Decree, the City
27 shall provide to EPA certificates of such insurance and a copy of
28 each insurance policy. The City shall resubmit such certificates

1 and copies of policies each year on the anniversary of the
2 effective date of this Consent Decree. If the City demonstrates
3 by evidence satisfactory to EPA that any contractor or
4 subcontractor maintains insurance equivalent to that described
5 above, or insurance covering the same risks but in a lesser
6 amount, then, with respect to that contractor or subcontractor,
7 the City need provide only that portion of the insurance
8 described above which is not maintained by the contractor or
9 subcontractor.

10 XVIII. FORCE MAJEURE

11 58. "Force majeure," for purposes of this Consent Decree,
12 is defined as any event arising from causes beyond the control of
13 the City, of any entity controlled by the City, or of the City's
14 contractors, that delays or prevents the performance of any
15 obligation under this Consent Decree despite the City's best
16 efforts to fulfill the obligation. The requirement that the
17 City exercise "best efforts to fulfill the obligation" includes
18 using best efforts to anticipate any potential force majeure
19 event and best efforts to address the effects of any potential
20 force majeure event (1) as it is occurring and (2) following the
21 potential force majeure event, such that the delay is minimized
22 to the greatest extent possible. "Force Majeure" does not
23 include financial inability to complete the Work or a failure to
24 attain the Performance Standards.

25 59. If any event occurs or has occurred that may delay the
26 performance of any obligation under this Consent Decree, whether
27 or not caused by a force majeure event, the City shall notify
28 orally EPA's Project Coordinator or, in his or her absence, EPA's

1 Alternate Project Coordinator or, in the event both of EPA's
2 designated representatives are unavailable, the Director of the
3 Superfund Division, EPA Region IX, within forty-eight (48) hours
4 of when the City first knew that the event might cause a delay.
5 Within five (5) days thereafter, the City shall provide in
6 writing to EPA and the State an explanation and description of
7 the reasons for the delay; the estimated duration of the delay;
8 all actions taken or to be taken to prevent or minimize the
9 delay; a schedule for implementation of any measures to be taken
10 to prevent or mitigate the delay or the effect of the delay; the
11 City's rationale for attributing such delay to a force majeure
12 event if it intends to assert such a claim; and a statement as to
13 whether, in the opinion of the City, such event may cause or
14 contribute to an endangerment to public health, welfare or the
15 environment. The City shall include with any notice all
16 available documentation supporting its claim that the delay was
17 attributable to a force majeure. Failure to comply with the
18 above requirements shall preclude the City from asserting any
19 claim of force majeure for that event for the period of time of
20 such failure to comply, and for any additional delay caused by
21 such failure.

22 60. If EPA agrees that the delay or anticipated delay is
23 attributable to a force majeure event, the time for performance
24 of the obligations under this Consent Decree that are affected by
25 the force majeure event will be extended by EPA for such time as
26 is necessary to complete those obligations. An extension of the
27 time for performance of the obligations affected by the force
28 majeure event shall not, in and of itself, extend the time for

1 performance of any other obligation. If EPA does not agree that
2 the delay or anticipated delay has been or will be caused by a
3 force majeure event, EPA will notify the City in writing of its
4 decision. If EPA agrees that the delay is attributable to a
5 force majeure event, EPA will notify the City in writing of the
6 length of the extension, if any, for performance of the
7 obligations affected by the force majeure event.

8 61. If the City elects to invoke the dispute resolution
9 procedures set forth in Section XIX (Dispute Resolution), it
10 shall do so no later than fifteen (15) days after receipt of
11 EPA's notice. In any such proceeding, the City shall have the
12 burden of demonstrating by a preponderance of the evidence that
13 the delay or anticipated delay has been or will be caused by a
14 force majeure event, that the duration of the delay or the
15 extension sought was or will be warranted under the
16 circumstances, that best efforts were exercised to avoid and
17 mitigate the effects of the delay, and that the City complied
18 with the requirements of Paragraphs 58 and 59, above. If the
19 City carries this burden, the delay at issue shall be deemed not
20 to be a violation by the City of the affected obligation of this
21 Consent Decree identified to EPA and the Court.

22 XIX. DISPUTE RESOLUTION

23 62. Unless otherwise expressly provided for in this Consent
24 Decree, the dispute resolution procedures of this Section shall
25 be the exclusive mechanism to resolve disputes arising under or
26 with respect to this Consent Decree. However, the procedures set
27 forth in this Section shall not apply to actions by the United
28 States to enforce obligations of the City that have not been

1 disputed in accordance with this Section.

2 63. Any dispute which arises under or with respect to this
3 Consent Decree shall in the first instance be the subject of
4 informal negotiations between the parties to the dispute. Within
5 five (5) days of the filing of an informal notice of dispute,
6 either party may opt for the assistance of a neutral moderator to
7 resolve the dispute. Unless the parties agree otherwise,
8 mediation shall not last longer than thirty (30) days. Mediation
9 expenses shall be borne by the City. In the absence of a request
10 for mediation, the period for informal negotiations shall not
11 exceed twenty (20) days from the time the dispute arises, unless
12 it is modified by written agreement of the parties to the
13 dispute. The dispute shall be considered to have arisen when one
14 party sends the other parties a written Notice of Dispute.

15 64. a. In the event that the parties cannot resolve a
16 dispute by informal negotiations under the preceding Paragraph,
17 then the position advanced by EPA shall be considered binding
18 unless, within ten (10) days after the conclusion of the informal
19 negotiation period, the City invokes the formal dispute
20 resolution procedures of this Section by serving on the United
21 States a written Statement of Position on the matter in dispute,
22 including, but not limited to, any factual data, analysis or
23 opinion supporting that position and any supporting documentation
24 relied upon by the City. The Statement of Position shall specify
25 the City's position as to whether formal dispute resolution
26 should proceed under Paragraph 65 or Paragraph 66.

27 b. Within two weeks after receipt of the City's
28 Statement of Position, EPA will serve on the City its Statement

1 of Position, including, but not limited to, any factual data,
2 analysis, or opinion supporting that position and all supporting
3 documentation relied upon by EPA. EPA's Statement of Position
4 shall include a statement as to whether formal dispute resolution
5 should proceed under Paragraph 65 or 66. Within five (5) days
6 after receipt of EPA's Statement of Position, the City may submit
7 a Reply.

8 c. If there is disagreement between EPA and the City
9 as to whether dispute resolution should proceed under Paragraph
10 66 or 67, the parties to the dispute shall follow the procedures
11 set forth in the paragraph determined by EPA to be applicable.
12 However, if the City ultimately appeals to the Court to resolve
13 the dispute, the Court shall determine which paragraph is
14 applicable in accordance with the standards of applicability set
15 forth in Paragraphs 65 and 66.

16 65. Formal dispute resolution for disputes pertaining to
17 the selection or adequacy of any response action and all other
18 disputes that are accorded review on the administrative record
19 under applicable principles of administrative law shall be
20 conducted pursuant to the procedures set forth in this Paragraph.
21 For purposes of this Paragraph, the adequacy of any response
22 action includes, without limitation: (1) the adequacy or
23 appropriateness of plans, procedures to implement plans, or any
24 other items requiring approval by EPA under this Consent Decree;
25 and (2) the adequacy of the performance of response actions taken
26 pursuant to this Consent Decree. Nothing in this Consent Decree
27 shall be construed to allow any dispute by the City regarding the
28 validity of the RODs' provisions.

1 a. An administrative record of the dispute shall be
2 maintained by EPA and shall contain all statements of position,
3 including supporting documentation, submitted pursuant to this
4 Section. Where appropriate, EPA may allow submission of
5 supplemental statements of position by the parties to the
6 dispute.

7 b. The Director of the Superfund Division, EPA Region
8 9, will issue a final administrative decision resolving the
9 dispute based on the administrative record described in Paragraph
10 65.a. This decision shall be binding upon the City , subject
11 only to the right to seek judicial review pursuant to Paragraph
12 65.c. and d.

13 c. Any administrative decision made by EPA pursuant
14 to Paragraph 65.b. shall be subject to review by this Court,
15 provided that a motion for judicial review of the decision is
16 filed by the City with the Court and served on EPA within three
17 weeks of receipt of EPA's decision. The motion shall include a
18 description of the matter in dispute, the efforts made by the
19 parties to resolve it, the relief requested, and the schedule, if
20 any, within which the dispute must be resolved to ensure orderly
21 implementation of this Consent Decree. The United States may
22 file a response to the City's motion.

23 d. In proceedings on any dispute governed by this
24 Paragraph, the City shall have the burden of demonstrating that
25 the decision of the Superfund Division Director is arbitrary and
26 capricious or otherwise not in accordance with law. Judicial
27 review of EPA's decision shall be on the administrative record
28 compiled pursuant to Paragraph 65.a.

1 66. Formal dispute resolution for disputes that neither
2 pertain to the selection or adequacy of any response action nor
3 are otherwise accorded review on the administrative record under
4 applicable principles of administrative law, shall be governed by
5 this Paragraph.

6 a. Following receipt of the City's Statement of
7 Position submitted pursuant to Paragraph 64, the Director of the
8 Superfund Division, EPA Region 9, will issue a final decision
9 resolving the dispute. The Superfund Division Director's
10 decision shall be binding on the City unless, within three weeks
11 of receipt of the decision, the City files with the Court and
12 serves on EPA a motion for judicial review of the decision
13 setting forth the matter in dispute, the efforts made by the
14 parties to resolve it, the relief requested, and the schedule, if
15 any, within which the dispute must be resolved to ensure orderly
16 implementation of the Consent Decree. The United States may file
17 a response to the City's motion.

18 b. Judicial review of any dispute governed by this
19 Paragraph shall be governed by applicable principles of law.

20 67. The invocation of formal dispute resolution procedures
21 under this Section shall not extend, postpone or affect in any
22 way any obligation of the City under this Consent Decree, not
23 directly in dispute, unless EPA or the Court agrees otherwise.
24 Stipulated penalties with respect to the disputed matter shall
25 continue to accrue, but payment shall be stayed pending
26 resolution of the dispute as provided in Paragraph 77.
27 Notwithstanding the stay of payment, stipulated penalties shall
28 accrue from the first day of noncompliance with any applicable

1 provision of this Consent Decree. Only in the event that the
2 City does not prevail on the disputed issue shall stipulated
3 penalties be assessed and paid as provided in Section XX
4 (Stipulated Penalties).

5 XX. STIPULATED PENALTIES

6 68. The City shall be liable for stipulated penalties in
7 the amounts set forth in Paragraphs 69, 70 and 71 to the United
8 States for failure to comply with the requirements of this
9 Consent Decree specified below, unless excused under Section
10 XVIII (Force Majeure). "Compliance" by the City shall include
11 completion of the activities under this Consent Decree or any
12 work plan or other plan approved under this Consent Decree
13 identified below in accordance with all applicable requirements
14 of law, this Consent Decree, the SOWs, and any plans or other
15 documents approved by EPA pursuant to this Consent Decree and
16 within the specified time schedules established by and approved
17 under this Consent Decree.

18 69. a. The following stipulated penalties shall accrue
19 per violation per day for any failure(s) to submit timely and
20 adequate reports identified in Subparagraphs b or c, or for any
21 failure to timely perform the work identified and scheduled in
22 those reports:

23	Penalty Per Violation Per Day	Period of Noncompliance Number of Days
24	\$5,000 . .	1 through 7
25	\$10,000 . .	8 through 14
26	\$15,000 . .	15 and beyond

27 b. Reports for OU1:
28

- 1 i. Draft Remedial Action Work Plan
- 2 ii. Prefinal Remedial Action Work Plan
- 3 iii. Final Remedial Action Work Plan
- 4 iv. Construction Complete Report
- 5 v. Yearly Status Reports
- 6 c. Reports for OU2:
- 7 i. Draft Remedial Design/Remedial Action Report
- 8 ii. Prefinal Remedial Design/Remedial Action
- 9 Report
- 10 iii. Final Remedial Design/Remedial Action Report
- 11 iv. Construction Completion Report - Phase I
- 12 v. Evaluation of Phase I Report
- 13 vi. Construction Completion Report - Phase II
- 14 vii. Evaluation of Phase II Report
- 15 viii. Construction Completion Report - Phase III
- 16 ix. Evaluation of Phase III Report
- 17 x. Yearly Status Reports

18 70. For failure to submit timely or adequate reports or
 19 documents required by this Consent Decree, other than those
 20 identified in subparagraph 69(b) and (c), the following
 21 stipulated penalties shall accrue per violation per day:

22	Penalty Per Violation	Period of Noncompliance
23	<u>Per Day</u>	<u>Number of Days</u>
24	\$1,500 . .	1 through 7
25	\$3,000 . .	8 and beyond

26 71. In the event that EPA assumes performance of a portion
 27 or all of the Work pursuant to Paragraph 85 of Section XXI
 28 (Covenants Not to Sue by Plaintiffs), the City shall be liable

1 for a stipulated penalty in the amount of \$1 million or the
2 amount of stipulated penalties otherwise due for the City's
3 failure to comply with the requirements of this Decree, whichever
4 is greater.

5 72. All penalties shall begin to accrue on the day after
6 the complete performance is due or the day a violation occurs,
7 and shall continue to accrue through the final day of the
8 correction of the noncompliance or completion of the activity.

9 However, stipulated penalties shall not accrue: (1) with respect
10 to a deficient submission under Section XI (EPA Approval of Plans
11 and Other Submissions), during the period, if any, beginning on
12 the 15th day after EPA's receipt of such submission until the
13 date that EPA notifies the City of any deficiency; (2) with
14 respect to a decision by the Director of the Superfund Division,
15 EPA Region 9, under Paragraph 65.b. or 66.a. of Section XIX
16 (Dispute Resolution), during the period, if any, beginning on the
17 11th day after the date that the City replies to EPA's Statement
18 of Position is received until the date that the Director issues a
19 final decision regarding such dispute; or (3) with respect to
20 judicial review by this Court of any dispute under Section XIX
21 (Dispute Resolution), during the period, if any, beginning on the
22 15th day after the Court's receipt of the final submission
23 regarding the dispute until the date that the Court issues a
24 final decision regarding such dispute. Nothing herein shall
25 prevent the simultaneous accrual of separate penalties for
26 separate violations of this Consent Decree.

27 73. Following EPA's determination that the City has failed
28 to comply with a requirement of this Consent Decree, EPA may

1 give the City written notification of the same and describe the
2 noncompliance. EPA shall send the City a written demand for the
3 payment of the penalties.

4 74. All penalties accruing under this Section shall be due
5 and payable to the United States within thirty (30) days of the
6 City's receipt from EPA of a demand for payment of the penalties,
7 unless the City invokes the Dispute Resolution procedures under
8 Section XIX (Dispute Resolution). All payments to the United
9 States under this Section shall be paid by certified or cashier's
10 check(s) made payable to "EPA Hazardous Substances Superfund,"
11 shall be paid in the manner directed in paragraph 52 of this
12 Consent Decree and shall also indicate that the payment is for
13 stipulated penalties.

14 75. The payment of penalties shall not alter in any way the
15 City's obligation to complete the performance of the Work
16 required under this Consent Decree.

17 76. Penalties shall continue to accrue as provided in
18 Paragraph 70 during any dispute resolution period, but need not
19 be paid until the following:

20 a. If the dispute is resolved by agreement or by a
21 decision of EPA that is not appealed to this Court, accrued
22 penalties determined to be owing shall be paid to EPA within
23 fifteen (15) days of the agreement or the receipt of EPA's
24 decision or order;

25 b. If the dispute is appealed to this Court and the
26 United States prevails in whole or in part, the City shall pay
27 all accrued penalties determined by the Court to be owed to EPA
28 within sixty (60) days of receipt of the Court's decision or

1 order, except as provided in Subparagraph c below;

2 c. If the District Court's decision is appealed by
3 any Party, the City shall pay all accrued penalties determined by
4 the District Court to be owing to the United States into an
5 interest-bearing escrow account within sixty (60) days of receipt
6 of the Court's decision or order. Penalties shall be paid into
7 this account as it continue to accrue, at least every sixty (60)
8 days. Within fifteen (15) days of receipt of the final appellate
9 court decision, the escrow agent shall pay the balance of the
10 account to EPA or to the City to the extent that it prevail.

11 77. a. If the City fails to pay stipulated penalties when
12 due, the United States may institute proceedings to collect the
13 penalties, as well as interest. The City shall pay Interest on
14 the unpaid balance, which shall begin to accrue on the date of
15 demand made pursuant to Paragraph 73.

16 b. Nothing in this Consent Decree shall be construed
17 as prohibiting, altering, or in any way limiting the ability of
18 the United States to seek any other remedies or sanctions
19 available by virtue of the City's violation of this Decree or of
20 the statutes and regulations upon which it is based, including,
21 but not limited to, penalties pursuant to Section 122(1) of
22 CERCLA. Provided, however, that the United States shall not seek
23 civil penalties pursuant to Section 122(1) of CERCLA for any
24 violation for which a stipulated penalty is provided herein,
25 except in the case of a willful violation of the Consent Decree.

26 78. Notwithstanding any other provision of this Section,
27 the United States may, in its unreviewable discretion, waive any
28 portion of stipulated penalties that have accrued pursuant to

1 this Consent Decree.

2 XXI. COVENANTS NOT TO SUE BY PLAINTIFF

3 79. In consideration of the actions that will be performed
4 and the payments that will be made by the City under the terms
5 of the Consent Decree, and except as specifically provided in
6 Paragraphs 81, 82, and 83 of this Section, the United States
7 covenants not to sue or to take administrative action against the
8 City pursuant to Sections 106 and 107(a) of CERCLA relating to
9 the Site. Except with respect to future liability, these
10 covenants not to sue shall take effect upon the receipt by EPA of
11 the payments required by Paragraph 52 of Section XVI
12 (Reimbursement of Response Costs). With respect to future
13 liability, these covenants not to sue shall take effect upon
14 Certification of Completion of Remedial Action by EPA pursuant to
15 Paragraph 48.b of Section XIV (Certification of Completion).
16 These covenants not to sue are conditioned upon the satisfactory
17 performance by the City of its obligations under this Consent
18 Decree. These covenants not to sue extend only to the City and
19 do not extend to any other person.

20 80. United States' Pre-certification reservations.

21 Notwithstanding any other provision of this Consent Decree, the
22 United States reserves, and this Consent Decree is without
23 prejudice to, the right to institute proceedings in this action
24 or in a new action, or to issue an administrative order seeking
25 to compel the City (1) to perform further response actions
26 relating to the Site or (2) to reimburse the United States for
27 additional costs of response if, prior to Certification of
28 Completion of the Remedial Actions:

1 (I) conditions at the Site, previously unknown to EPA,
2 are discovered, or
3 (ii) information, previously unknown to EPA, is
4 received, in whole or in part,
5 and these previously unknown conditions or information together
6 with any other relevant information indicate that the Remedial
7 Actions are not protective of human health or the environment.

8 81. United States' Post-certification reservations.

9 Notwithstanding any other provision of this Consent Decree, the
10 United States reserves, and this Consent Decree is without
11 prejudice to, the right to institute proceedings in this action
12 or in a new action, or to issue an administrative order seeking
13 to compel the City (1) to perform further response actions
14 relating to the Site or (2) to reimburse the United States for
15 additional costs of response if, subsequent to Certification of
16 Completion of the Remedial Actions:

17 (I) conditions at the Site, previously unknown to EPA,
18 are discovered, or
19 (ii) information, previously unknown to EPA, is
20 received,
21 in whole or in part,
22 and these previously unknown conditions or this information
23 together with other relevant information indicate that the
24 Remedial Actions are not protective of human health or the
25 environment.

26 82. For purposes of Paragraph 81, the information and the
27 conditions known to EPA shall include only that information and
28 those conditions known to EPA as of the dates the RODs were

1 signed and set forth in the Records of Decision for the Site and
2 the administrative records supporting the Records of Decision.
3 For purposes of Paragraph 82, the information and the conditions
4 known to EPA shall include only that information and those
5 conditions known to EPA as of the date of Certification of
6 Completion of the Remedial Actions and set forth in the Records
7 of Decision, the administrative record supporting the Records of
8 Decision, the post-RODs administrative record, or in any
9 information received by EPA pursuant to the requirements of this
10 Consent Decree prior to Certification of Completion of the
11 Remedial Actions.

12 83. General reservations of rights. The covenants not to
13 sue set forth above do not pertain to any matters other than
14 those expressly specified in Paragraph 80. The United States
15 reserves, and this Consent Decree is without prejudice to, all
16 rights against the City with respect to all other matters,
17 including but not limited to, the following:

18 (1) claims based on a failure by the City to meet a
19 requirement of this Consent Decree;

20 (2) liability for future disposal of Waste Material at
21 the Site, other than as provided in the RODs, the Work, or
22 otherwise ordered by EPA;

23 (3) liability for damages for injury to, destruction
24 of, or loss of natural resources, and for the costs of any
25 natural resource damage assessments, pursuant to 107

26 (a) (4) (C) of CERCLA;

27 (4) criminal liability;

28 (5) liability for violations of federal or state law

1 which occur during or after implementation of the Remedial
2 Actions; and

3 (6) liability, prior to Certification of
4 Completion of the Remedial Actions, for additional
5 response actions that EPA determines are necessary to
6 achieve Performance Standards, but that cannot be
7 required pursuant to Paragraph 14 (Modification of the
8 SOWs or Related Work Plans);

9 (7) liability for additional operable units at the
10 Site;

11 (8) liability for costs that the United States will
12 incur related to the Site but are not within the definition
13 of Future Response Costs.

14 84. Work Takeover In the event EPA determines that the
15 City has ceased implementation of any portion of the Work, is
16 seriously or repeatedly deficient or late in its performance of
17 the Work, or is implementing the Work in a manner which may cause
18 an endangerment to human health or the environment, EPA may
19 assume the performance of all or any portions of the Work as EPA
20 determines necessary. The City may invoke the procedures set
21 forth in Section XIX (Dispute Resolution), Paragraph 65, for the
22 sole purpose of disputing EPA's determination that takeover of
23 the Work is warranted under this Paragraph. In no event shall
24 the dispute delay EPA's takeover of the Work. Costs incurred by
25 the United States in performing the Work pursuant to this
26 Paragraph shall be considered Future Response Costs that the City
27 shall pay pursuant to Section XVI (Reimbursement of Response
28 Costs).

1 85. Notwithstanding any other provision of this Consent
2 Decree, the United States retains all authority and reserves all
3 rights to take any and all response actions authorized by law.

4
5 XXII. COVENANTS BY THE CITY

6 86. Covenant Not to Sue. Subject to the reservations in
7 Paragraph 87, the City hereby covenants not to sue and agrees not
8 to assert any claims or causes of action against the United
9 States with respect to work pertaining to the Site and Future
10 Response Costs as defined herein or this Consent Decree,
11 including, but not limited to:

12 a. any direct or indirect claim for reimbursement
13 from the Hazardous Substance Superfund (established pursuant to
14 the Internal Revenue Code, 26 U.S.C. § 9507) through CERCLA
15 Sections 106(b)(2), 107, 111, 112, 113 or any other provision of
16 law;

17 b. any claims against the United States, including
18 any department, agency or instrumentality of the United States
19 under CERCLA Sections 107 or 113 related to the Site, or

20 c. any claims arising out of response activities at
21 the Site, including claims based on EPA's selection of response
22 actions, oversight of response activities or approval of plans
23 for such activities.

24 87. The City reserves, and this Consent Decree is without
25 prejudice to, claims against the United States, subject to the
26 provisions of Chapter 171 of Title 28 of the United States Code,
27 for money damages for injury or loss of property or personal
28 injury or death caused by the negligent or wrongful act or

1 omission of any employee of the United States while acting within
2 the scope of his or her office or employment under circumstances
3 where the United States, if a private person, would be liable to
4 the claimant in accordance with the law of the place where the
5 act or omission occurred. However, any such claim shall not
6 include a claim for any damages caused, in whole or in part, by
7 the act or omission of any person, including any contractor, who
8 is not a federal employee as that term is defined in 28 U.S.C. §
9 2671; nor shall any such claim include a claim based on EPA's
10 selection of response actions, or the oversight or approval of
11 the City's s plans or activities. The foregoing applies only to
12 claims which are brought pursuant to any statute other than
13 CERCLA and for which the waiver of sovereign immunity is found in
14 a statute other than CERCLA;

15 88. Nothing in this Consent Decree shall be deemed to
16 constitute preauthorization of a claim within the meaning of
17 Section 111 of CERCLA, 42 U.S.C. § 9611, or 40 C.F.R.
18 § 300.700(d).

19 XXIII. EFFECT OF SETTLEMENT: CONTRIBUTION PROTECTION

20 89. Nothing in this Consent Decree shall be construed to
21 create any rights in, or grant any cause of action to, any person
22 not a Party to this Consent Decree. The preceding sentence shall
23 not be construed to waive or nullify any rights that any person
24 not a signatory to this decree may have under applicable law.
25 Each of the Parties expressly reserves any and all rights
26 (including, but not limited to, any right to contribution),
27 defenses, claims, demands, and causes of action which each Party
28 may have with respect to any matter, transaction, or occurrence

1 relating in any way to the Site against any person not a Party
2 hereto.

3 90. The Parties agree, and by entering this Consent Decree
4 this Court finds, that the City is entitled, as of the effective
5 date of this Consent Decree, to protection from contribution
6 actions or claims as provided by CERCLA Section 113(f)(2), 42
7 U.S.C. § 9613(f)(2) for matters addressed in this Consent Decree.

8 91. The "matters addressed" in this settlement are all
9 response actions taken or to be taken and all response costs
10 incurred ro to be incurred by the United States or any other
11 person with respect to the Site. The "matters addressed" in this
12 settlement do not include those response costs or response action
13 as to which the United States has reserved its rights under this
14 Consent Decree (except for claims for failure to comply with this
15 Decree), in the event that the United States asserts rights
16 against the City coming within the scope of such reservations.

17 92. [RESERVED]

18 93. [RESERVED]

19 94. In any subsequent administrative or judicial proceeding
20 initiated by the United States for injunctive relief, recovery of
21 response costs, or other appropriate relief relating to the Site,
22 the City shall not assert, and may not maintain, any defense or
23 claim based upon the principles of waiver, res judicata,
24 collateral estoppel, issue preclusion, claim-splitting, or other
25 defenses based upon any contention that the claims raised by the
26 United States in the subsequent proceeding were or should have
27 been brought in the instant case; provided, however, that nothing
28 in this Paragraph affects the enforceability of the covenants not

1 to sue set forth in Section XXI (Covenants Not to Sue by
2 Plaintiff).

3 XXIV. ACCESS TO INFORMATION

4 95. The City shall provide to EPA, upon request, copies of
5 all nonprivileged documents and information within its possession
6 or control or that of its contractors or agents relating to
7 activities at the Site or to the implementation of this Consent
8 Decree, including, but not limited to, sampling, analysis, chain
9 of custody records, manifests, trucking logs, receipts, reports,
10 sample traffic routing, correspondence, or other documents or
11 information related to the Work. The City shall also make
12 available to EPA, for purposes of investigation, information
13 gathering, or testimony, its employees, agents, or
14 representatives with knowledge of relevant facts concerning the
15 performance of the Work.

16 96. a. The City may assert business confidentiality
17 claims covering part or all of the documents or information
18 submitted to Plaintiff under this Consent Decree to the extent
19 permitted by and in accordance with Section 104(e)(7) of CERCLA,
20 42 U.S.C. § 9604(e)(7), and 40 C.F.R. § 2.203(b). Documents or
21 information determined to be confidential by EPA will be afforded
22 the protection specified in 40 C.F.R. Part 2, Subpart B. If no
23 claim of confidentiality accompanies documents or information
24 when it are submitted to EPA, or if EPA has notified the City
25 that the documents or information are not confidential under the
26 standards of Section 104(e)(7) of CERCLA, the public may be given
27 access to such documents or information without further notice to
28 the City.

1 b. The City may assert that certain documents,
2 records and other information are privileged under the attorney-
3 client privilege or any other privilege recognized by federal
4 law. If the City asserts such a privilege in lieu of providing
5 documents, it shall provide Plaintiff with the following: (1)
6 the title of the document, record, or information; (2) the date
7 of the document, record, or information; (3) the name and title
8 of the author of the document, record, or information; (4) the
9 name and title of each addressee and recipient; (5) a description
10 of the contents of the document, record, or information: and (6)
11 the privilege asserted by the City. However, no documents,
12 reports or other information created or generated at the request
13 of EPA pursuant to the requirements of the Consent Decree shall
14 be withheld on the grounds that they are privileged.

15 97. No claim of confidentiality shall be made with respect
16 to any data, including, but not limited to, all sampling,
17 analytical, monitoring, hydrogeologic, scientific, chemical, or
18 engineering data, or any other documents or information
19 evidencing conditions at or around the Site.

20 XXV. RETENTION OF RECORDS

21 98. Until 10 years after the City's receipt of EPA's
22 notification pursuant to Paragraph 49(b) of Section XIV
23 (Certification of Completion of the Work), the City shall
24 preserve and retain all records and documents now in its
25 possession or control or which come into its possession or
26 control that relate in any manner to the performance of the Work
27 or liability of any person for response actions conducted and to
28 be conducted at the Site, regardless of any document retention

1 policy to the contrary. Until ten (10) years after the City's
2 receipt of EPA's notification pursuant to Paragraph 49.b of
3 Section XIV (Certification of Completion), the City shall also
4 instruct its contractors and agents to preserve all documents,
5 records, and information of whatever kind, nature or description
6 relating to the performance of the Work for a period of ten (10)
7 years.

8 99. At the conclusion of this document retention period,
9 the City shall deliver these documents to EPA. The City may
10 assert that certain documents, records and other information are
11 privileged under the attorney-client privilege or any other
12 privilege recognized by federal law. If the City asserts such a
13 privilege, it shall provide Plaintiff with the following: (1)
14 the title of the document, record, or information; (2) the date
15 of the document, record, or information; (3) the name and title
16 of the author of the document, record, or information; (4) the
17 name and title of each addressee and recipient; (5) a description
18 of the subject of the document, record, or information; and (6)
19 the privilege asserted by the City. However, no documents,
20 reports or other information created or generated pursuant to the
21 requirements of the Consent Decree shall be withheld on the
22 grounds that they are privileged. The City hereby certifies
23 that, to the best of its knowledge and belief, after thorough
24 inquiry, it has not altered, mutilated, discarded, destroyed or
25 otherwise disposed of any records, documents or other information
26 relating to its potential liability regarding the Site since
27 notification of potential liability by the United States or the
28 State or the filing of suit against it regarding the Site and

1 that it has fully complied with any and all EPA requests for
2 information pursuant to Section 104(e) and 122(e) of CERCLA, 42
3 U.S.C. 9604(e) and 9622(e), and Section 3007 of RCRA, 42 U.S.C.
4 6927.

5 XXVI. NOTICES AND SUBMISSIONS

6 100. Whenever, under the terms of this Consent Decree,
7 written notice is required to be given or a report or other
8 document is required to be sent by one Party to another, it shall
9 be directed to the individuals at the addresses specified below,
10 unless those individuals or their successors give notice of a
11 change to the other Parties in writing. All notices and
12 submissions shall be considered effective upon receipt, unless
13 otherwise provided. Written notice as specified herein shall
14 constitute complete satisfaction of any written notice
15 requirement of the Consent Decree with respect to the United
16 States, EPA, and the City, respectively.

17 As to the United States:

18 Chief, Environmental Enforcement Section
19 Environment and Natural Resources Division
20 U.S. Department of Justice
21 P.O. Box 7611
22 Ben Franklin Station
23 Washington, D.C. 20044
24 Re: DJ # 90-11-2-753

22 As to EPA:

23 Keith Takata
24 Director, Superfund Division
25 United States Environmental Protection Agency
26 Region 9
27 75 Hawthorne St.
28 San Francisco, CA 94105

and

Cynthia Wetmore
EPA Project Coordinator

1 United States Environmental Protection Agency
2 Region IX
3 75 Hawthorne St.
4 San Francisco, CA 94105

5 As to the City :

6 City Project Coordinator to be designated by the City
7 and

8 Ronald C. Anderson, Jr.
9 Assistant Public Utilities Director
10 Department of Public Utilities
11 City of Fresno
12 2600 Fresno Street
13 Fresno, CA 93721-3624

14 and

15 Martin D. Koczanowicz
16 Deputy City Attorney
17 City Attorney's Office
18 City of Fresno
19 2600 Fresno Street
20 Fresno, CA 93721-3602

21 XXVII. EFFECTIVE DATE

22 101. The effective date of this Consent Decree shall be the
23 date upon which this Consent Decree is entered by the Court,
24 except as otherwise provided herein.

25 XXVIII. RETENTION OF JURISDICTION

26 102. This Court retains jurisdiction over both the subject
27 matter of this Consent Decree and the City for the duration of
28 the performance of the terms and provisions of this Consent
Decree for the purpose of enabling any of the Parties to apply to
the Court at any time for such further order, direction, and
relief as may be necessary or appropriate for the construction or
modification of this Consent Decree, or to effectuate or enforce
compliance with its terms, or to resolve disputes in accordance

1 with Section XIX (Dispute Resolution) hereof.

2 XXIX. APPENDICES

3 103. The following appendices are attached to and
4 incorporated into this Consent Decree:

5 "Appendix A" is the ROD signed September 30, 1993

6 "Appendix B" is the ROD signed September 30, 1996.

7 "Appendix C" is the SOW for Operable Unit One.

8 "Appendix D" is the SOW for Operable Unit Two.

9 XXX. COMMUNITY RELATIONS

10 104. The City shall propose to EPA its participation in the
11 community relations plan to be developed by EPA. EPA will
12 determine the appropriate role for the City under the Plan. The
13 City shall also cooperate with EPA in providing information
14 regarding the Work to the public. As requested by EPA, the City
15 shall participate in the preparation of such information for
16 dissemination to the public and in public meetings which may be
17 held or sponsored by EPA to explain activities at or relating to
18 the Site.

19 XXXI. MODIFICATION

20 105. Schedules specified in this Consent Decree for
21 completion of the Work may be modified by agreement of EPA and
22 the City. All such modifications shall be made in writing.

23 106. Except as provided in Paragraph 14 (Modification of the
24 SOWs or Related Work Plans), no material modifications shall be
25 made to the SOWs without written notification to and written
26 approval of the United States, the City, and the Court. Prior to
27 providing its approval to any modification, the United States
28 will provide the State with a reasonable opportunity to review

1 and comment on the proposed modification. Modifications to the
2 SOWs that do not materially alter that document may be made by
3 written agreement between EPA, after providing the State with a
4 reasonable opportunity to review and comment on the proposed
5 modification, and the City.

6 107. Nothing in this Decree shall be deemed to alter the
7 Court's power to enforce, supervise or approve modifications to
8 this Consent Decree.

9 XXXII. LODGING AND OPPORTUNITY FOR PUBLIC COMMENT

10 108. This Consent Decree shall be lodged with the Court for
11 a period of not less than thirty (30) days for public notice and
12 comment in accordance with Section 122(d) (2) of CERCLA, 42 U.S.C.
13 § 9622(d) (2), and 28 C.F.R. § 50.7. The United States reserves
14 the right to withdraw or withhold its consent if the comments
15 regarding the Consent Decree disclose facts or considerations
16 which indicate that the Consent Decree is inappropriate,
17 improper, or inadequate. The City consents to the entry of this
18 Consent Decree without further notice.

19 109. If for any reason the Court should decline to approve
20 this Consent Decree in the form presented, this agreement is
21 voidable at the sole discretion of any Party and the terms of the
22 agreement may not be used as evidence in any litigation between
23 the Parties.

24 XXXIII. SIGNATORIES/SERVICE

25 110. The undersigned representative of the City to this
26 Consent Decree and the Assistant Attorney General for Environment
27 and Natural Resources of the Department of Justice certify that
28 he or she is fully authorized to enter into the terms and

1 conditions of this Consent Decree and to execute and legally bind
2 such Party to this document.

3 111. The City hereby agrees ~~not to~~ oppose entry of this
4 Consent Decree by this Court or to challenge any provision of
5 this Consent Decree prior to entry, unless the United States has
6 notified the City in writing that it no longer supports entry of
7 the Consent Decree.

8 112. The City shall identify, on the attached signature
9 page, the name, address and telephone number of an agent who is
10 authorized to accept service of process by mail on behalf of that
11 Party with respect to all matters arising under or relating to
12 this Consent Decree. The City hereby agrees to accept service in
13 that manner and to waive the formal service requirements set
14 forth in Rule 4 of the Federal Rules of Civil Procedure and any
15 applicable local rules of this Court, including, but not limited
16 to, service of a summons.

17 SO ORDERED THIS 9th DAY OF June, 1994.

18
19 
20 United States District Judge
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28

1 THE UNDERSIGNED PARTIES enter into this Consent Decree in the
2 matter of United States v. the City of Fresno, relating
3 to the Fresno Sanitary Landfill Superfund Site.

4
5 FOR THE UNITED STATES OF AMERICA

6 Date: 12/30/92

7 *Lois J. Schiffer*
8 LOIS J. SCHIFFER
9 Assistant Attorney General
10 Environment and Natural Resources
11 Division
12 U.S. Department of Justice
13 Washington, D.C. 20530

14 *Richard L. Beal*
15 RICHARD L. BEAL
16 Environmental Enforcement Section
17 Environment and Natural Resources
18 Division
19 U.S. Department of Justice
20 P.O. Box 7611
21 Ben Franklin Station
22 Washington, D.C. 20044-7611

23 *E. Robert Wright 2/24/98*
24 E. ROBERT WRIGHT
25 Assistant United States Attorney
26 Eastern District of California
27 3654 Federal Building
28 Fresno, California 93721


29 *N/A KLB*
30 STEVE A. HERMAN
31 Assistant Administrator for
32 Enforcement and Compliance
33 Assurance
34 U.S. Environmental Protection
35 Agency
36 401 M Street, S.W.
37 Washington, D.C. 20460

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Keith A. Takata
KEITH A. TAKATA
Director, Superfund Division
United States Environmental
Protection Agency, Region IX
75 Hawthorne Street
San Francisco, CA 94105

1 THE UNDERSIGNED PARTY enters into this Consent Decree in the
2 matter of United States v. the City of Fresno relating
3 to the Fresno Sanitary Landfill Superfund Site.
4

5
6 FOR THE CITY OF FRESNO

7
8 
9 JEFFREY M. REID
10 City Manager
11 City of Fresno
12 2600 Fresno Street
13 Fresno, CA 93721-3601
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Agent Authorized to Accept Service on Behalf of Above-signed
Party:

Name: City of Fresno
 Martin D. Koczanowicz

Title: Deputy City Attorney

Address: 2600 Fresno Street
 Fresno, CA 93721-3602

Tel. Number: (209) 498-1326

United States District Court
for the
Eastern District of California
June 10, 1998

mh

* *~CERTIFICATE OF SERVICE * *

1:98-cv-05195

USA

v.

City of Fresno

I, the undersigned, hereby certify that I am an employee in the Office of the Clerk, U.S. District Court, Eastern District of California.

That on June 10, 1998, I SERVED a true and correct copy(ies) of the attached, by placing said copy(ies) in a postage paid envelope addressed to the person(s) hereinafter listed, by depositing said envelope in the U.S. Mail, or by placing said copy(ies) into an inter-office delivery receptacle located in the Clerk's office.

E Robert Wright
United States Attorney's Office
1130 O Street
Room 3654
Fresno, CA 93721

REC SMS

Jack L. Wagner, Clerk

BY: 
Deputy Clerk

**APPENDIX C
SCOPE OF WORK
FRESNO SANITARY LANDFILL
OPERABLE UNIT ONE
REMEDIAL ACTION**

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**SCOPE OF WORK
OPERABLE UNIT ONE
REMEDIAL ACTION**

1.0 INTRODUCTION AND OBJECTIVES

1.1 Introduction

This Scope of Work (SOW) details the activities to be undertaken by the City of Fresno (the City) in compliance with this Decree at the Fresno Sanitary Landfill (FSL).

The Work includes all activities necessary for the implementation of the construction, compliance testing, and operation and maintenance of the gas control system, the cover system, the surface water management system, and if necessary, the contingency leachate collection system. The Work also includes the development and implementation of management plans as well as communication, integration and coordination procedures.

Operation and Maintenance activities shall be conducted during construction, compliance testing and afterwards in accordance with procedures described in this SOW.

The basic elements of work shall include:

The landfill gas control system includes the following components:

- Landfill Gas Recovery wells,
- Landfill Gas collection system,
- Landfill Gas treatment facility,
- Landfill Gas Monitoring equipment, and
- Condensate Monitoring, Collection and Disposal.

The cover system includes the following components:

- Cover, including foundation, low-permeability and drainage & filtration layers,
- Cover Protection, and
- Access and Bench Road.

The surface water management system includes the following components:

- Sedimentation and Erosion Controls,
- Retention Basins,
- Drainage Conveyances and Appurtenances.

The contingency leachate collection system, if necessary, includes the following components:

- Leachate Recovery,
- Leachate Collection, and
- Leachate Disposal.

In the event that work activities result in the alteration, destruction or abandonment of any site facility not related to the Work, but necessary for the site work, the Work Defendant shall either repair or replace, as necessary, such a facility with one that provides the same level of control or function as appropriate.

1.2 Objectives

This section states the overall objectives for the work to be performed pursuant to the Decree. In addition, the objectives for components of the Work are summarized herein. The overall objective for the Work is to construct, operate, maintain, and monitor the Gas Control System, Cover System and Surface Water Management System to meet Performance Standards.

1.2.1 Gas Control System

The gas collection component will consist of the extraction wells, surface collectors, vacuum piping, monitoring probes and their appurtenant features. Objectives include the following:

- Minimize subsurface migration,
- Minimize surface emissions,
- Maximize collection system efficiency,
- Maximize potential for removal of recovered liquids, and
- Provide adequate destruction capacity for landfill gas collected.

1.2.2 Cover Component

The cover component will consist of the foundation layer, the low-permeability layer, drainage and filtration layer, vegetative protective layer. Objectives include the following:

- Minimize rainwater infiltration into the trash prism,
- Maximize control of both subsurface migration and surface emissions of landfill gas,
- Minimize oxygen intrusion, and
- Maximize maintenance effectiveness.

1.2.3 Surface Water Management System

The surface water management system includes elements to manage surface water run-off generated by storm events and irrigation operations. Objectives include the following:

- Minimize surface water infiltration,
- Minimize erosion,
- Minimize maintenance requirements, and
- Minimize off-site impacts related to run-off quality and quantity.

1.2.4 Contingency Leachate Collection System Component

The contingency leachate collection system component will consist of equipment to pump liquids from gas wells, if required, and related piping and appurtenances required to collect and convey recovered liquids to an appropriate location for treatment or disposal. Objectives include the following:

- Minimize the potential for system upsets,
- Minimize the impact of system upsets,
- Maximize collection of recovered liquids, and
- Treat recovered liquids from the gas control system to the applicable standards as required by receiving treatment facility standards.

2.0 BACKGROUND

2.1 Site Description

The FSL is located four miles southwest of the City of Fresno in Fresno County, California. The Landfill consists of approximately 145 acres and is bounded on the north by Jensen Avenue, on the east by West Avenue, on the south by North Avenue, and on the west by agricultural fields. The City of Fresno owns approximately 155 acres to the north, south and southwest of the landfill.

2.2 Work Completed to Date

Numerous investigations have been conducted at the FSL, beginning in 1971, with an initial evaluation of the soils beneath the landfill. Details regarding previous air and soil gas sampling and analytical results are summarized in the Remedial Investigation report [CDM, 1994] and were presented in the PreDesign Report [Geosyntec, 1995]. Details of the landfill gas well installation and the results of four quarterly landfill gas samples were presented in the 30% Design submittal [GeoSyntec, 1995], the 60% Design submittal [GeoSyntec, 1996], the 90% Design submittal [GeoSyntec, 1996] and the final Design [GeoSyntec, 1997].

3.0 COORDINATION AND INTEGRATION

The City shall establish integration and coordination procedures to facilitate the performance of the Work, other Site operations and other Work at the Site. Activities performed pursuant to this Decree shall be integrated and coordinated with at least the following tasks:

- Site control and monitoring;
- Site security;
- Emergency response activities, if necessary; and
- Community relations activities.

The City shall participate in technical exchange meetings as appropriate to assure that information is exchanged and reviewed at all stages of the Work. These meetings may also be used to:

- discuss current and planned activities that may impact other work at the Site; and
- assist in the approval of deliverables by reporting on interim conclusions and build early technical consensus.

When necessary, other organizations, including state or local agencies, may attend meetings.

The City shall develop timely notification procedures for meetings, site activities or events that might affect any Work.

3.1 Coordination with Operable Unit 2 remedial design/action

In conjunction with the construction of the landfill cap and associated systems, the design and initial phasing of the groundwater remedy will be implemented. The two projects impact the physical and scheduling success of each other since the groundwater extracted from phase I groundwater wells will be used to irrigate the vegetation on the landfill cover, and the retention ponds will impact the flow of groundwater. It is essential that the two projects be integrated by the City.

The City shall establish technical and scheduling exchange meetings on a regular basis for coordination between the two Work efforts.

4.0 ACTIVITIES

4.1 Construction Planning Activities

4.1.1 Remedial Action Work Plan

The City shall provide a Remedial Action Work Plan which provides for construction and implementation of the remedy. Upon its approval by EPA, the Remedial Action Work Plan shall be enforceable under this Consent Decree. The Remedial Action Work Plan shall include the following:

- the schedule for implementation of the Remedial Action;
- schedule for developing and submitting other required Remedial Action plans;
- methodology for implementation of the Construction Quality Assurance Plan ("CQAP")
- updates to the CQAP, if necessary;
- procurement plan, including bidding process and process for selecting contractor;
- methods for satisfying permitting requirements;
- methodology for implementation of the Operation and Maintenance Plan;
- tentative formulation of the Remedial Action team;
- methodology for decontamination of equipment and the disposal of contaminated material;
- procedures for involving regulating agencies;
- coordination procedures with work under Operable Unit 2, Groundwater Remediation;
- procedures and schedules for the review of contractor submittals;
- procedures for notification of meetings;
- identification of key meetings;
- format of weekly construction meetings;
- procedures for interpreting the technical and schedule impacts of proposed field changes and contract modifications;
- procedures for documenting field changes;
- procedures for design modifications during construction activities including the submittal of Technical Memorandum pursuant to this Decree;
- formats for Incident Report, Compliance Testing Report, Noncompliance Notification, Compliance Action Plan, Noncompliance Correction Plan, Progress Reports (Monthly & Yearly reports for each activity) subsequent to approval of the Construction Completion Report; and
- community notification plan.

4.1.2 Sampling Plans

Sampling Plans, whether for monitoring and sampling activities or for other activities, shall comply with EPA guidelines and shall include at least the following components:

- Sampling rationale and description of techniques used in selecting sampling sites (e.g., random, stratified, etc.);
- Specific sampling, preservation, and preparation procedures used, extraction methods, analytical references or description (including sample size, types of sample containers, applicable samplers, etc.) For nonstandard or modified sampling methods, detailed procedures with appropriate references are required;
- Sampling program organization;
- Description of sample container and sampler cleaning procedures for each type of container to be used following EPA guidelines or other appropriate procedures;
- Procedures to avoid sample contamination;
- Sample preservation methods and holding times, following EPA SW846 guidelines or other appropriate references;
- Sample transportation requirements (following EPA and Department of Transportation guidelines,

- as applicable);
- Chain-of Custody procedures, following the EPA SW-846 guidelines, and other appropriate references;
- Procedures and responsibility for data validation, as appropriate;
- Sampling and sample custody procedures;
- Analytical methods/procedures;
- Analytical/statistical/control procedures, including requirements for accuracy, sensitivity, precision, sample quantities, calibration procedures, preventive maintenance, internal quality control checks, representative samples and data comparability;
- Data handling, analysis and reporting; and
- Data validation procedures.

4.1.3 Safety, Health and Emergency Response Plan (SHERP)

The SHERP shall establish safety, health and emergency response procedures for all Work activities to be conducted by the City. The SHERP shall address both workers at the site and public exposure to releases or spills at the site. The SHERP shall include at least the following basic elements:

- Introduction and Purpose;
- Applicable Laws and Regulations;
- Onsite Organization and Coordination;
- Medical Surveillance Program;
- Chemicals of Concern;
- Activities Hazard Analysis;
- Site Control, Work Zones, and Security Measures;
- General Safe Work practices;
- Training;
- Personnel Protective Equipment;
- Procedures for updating and distributing the SHERP;
- Record Keeping;
- Requirements for Subcontractors; and
- Procedures for special activities.

EPA's Comments on and approval of the Safety, Health and Emergency Response Plan shall not constitute EPA approval of the Health and Safety Protocols and other health and safety portions of this Plan.

4.2 Construction Activities

Construction activities shall be guided by the approved Final Design, the Remedial Action Work Plan and other Management Plans. The City shall provide technical supervision and construction management during the Work construction activities. Construction activities shall include:

- Construction
- System Inspection
- Punch list activities, as necessary
- Reinspection(s), as necessary
- Pre-startup testing
- Startup testing
- Final inspection
- System Startup

If the City or EPA determines that a design modification is necessary during construction, a Technical Memorandum shall be submitted by the to EPA using procedures set forth in this Decree.

4.2.1 Operation and Maintenance Manual

The Operations & Maintenance Plan shall be amended, if appropriate, to guide the operations, maintenance and monitoring activities required for the Work. The Operations & Maintenance Manual shall be amended to include, at a minimum the following:

- Manufacturer's O&M procedures;
- Operational Emergency response;
- Maintenance procedures and schedules;
- Monitoring procedures and schedules;
- Inspection program;
- Training requirements;
- Parts and equipment inventory;
- Well abandonment procedures; and

Appendices with:

- Sampling Plans for each of the monitoring and sampling activities
- Compliance Testing Plan to guide compliance testing activities

4.2.2 Construction Completion Report

Construction activities shall be considered complete after submittal to and approval by EPA of the Construction Completion Report. The format of the Construction Completion Report shall be presented in the Remedial Action Work Plan and shall include at a minimum

- Introduction;
- Revised As-Built Plans and specifications reflecting any modifications made to the Work Systems as part of the Compliance Testing Activities, as necessary;
- Revised Operations Plan reflecting any changes to operational procedures as a result of Compliance Testing Activities, as necessary;
- QA/QC records;
- Summary of design changes implemented by the Technical Memorandum process;
- Revised Operations and Maintenance Manual, as required; and
- Professional Engineer certification that Work has been completed according to design, and that As-Built Drawings are accurate

4.3 Compliance Testing Activities

The overall objective for compliance testing activities is to demonstrate that the constructed systems have achieved compliance with the Performance Standards. Compliance Testing may begin after approval of the Construction Completion Report and the Compliance Testing Plan.

4.3.1 Compliance Testing Plan

Defendants shall submit a Compliance Testing Plan. The Compliance Testing Plan shall describe the procedures to be used to demonstrate compliance and guide the compliance testing activities and acceptance procedures. The Compliance Testing Plan shall be submitted at three levels of completeness (Outline, Preliminary and Final). The Compliance Testing Plan shall include at a minimum:

- Identification of Performance Standards which are subject to compliance testing;
- Discussion of overall approach to demonstrating compliance with identified Performance Standards, including the manner in which statistical and temporal variations and non-systemic performance variances will be interpreted;
- Description of the specific monitoring procedures that will demonstrate compliance with Performance Standards, including monitoring frequency within the compliance testing periods
- Sampling Plans, as necessary;

- Monitoring schedule, taking into account personnel and equipment logistics and integration and coordination with other Site activities ;
- Specific coordination procedures for any EPA split or replicate sampling activities; and
- Schedule for Compliance Testing.

4.3.2 Compliance Testing Period

After EPA approval of the Final Construction Completion Report, and the Final Compliance Testing Plan, the City shall submit a Compliance Testing Request that specifies a start date for the first compliance testing period.

Compliance testing shall occur in consecutive 90 day Compliance Testing Periods. Compliance testing shall be conducted pursuant to specific procedures as set forth in the Compliance Testing Plan. The following general procedures shall be followed:

A Compliance Testing Period shall be considered successful if, pursuant to procedures set forth in the Compliance Testing Plan, the City demonstrate that all Performance Standards identified in the Compliance Testing Plan have been attained under normal operating conditions set forth in the Operations & Maintenance Manual and maintained pursuant to this Decree.

Monitoring and sampling to demonstrate compliance may be conducted more than once during the Compliance Testing Period pursuant to schedules set forth in the Compliance Testing Plan

In the event that monitoring shows noncompliance pursuant to procedures set forth in the Compliance Testing Plan, activities including but not limited to the following may be performed during the Compliance Testing Period

- Additional Monitoring and/or sampling, as necessary, prior to any other activities to eliminate the possibility of statistical aberration or sampling errors;
- Adjustments to controls which may alter the performance of the Site Systems; and
- Additional construction activities

4.3.3 Compliance Testing Reports

A Compliance Testing report shall be submitted by the Work Defendant no later than six (6) weeks after conclusion of each Compliance Testing Period. The format of the Compliance Testing Report shall be presented in the Operations & Maintenance Manual and shall include at a minimum:

- A statement as to whether the compliance Testing Period was successful or unsuccessful;
- A summary of monitoring and other activities related to compliance testing conducted during the Compliance Testing Period;
- A summary of monitoring and other data collected during the compliance Testing Period including the locations and sampling dates for each data point or set of data points relating to System performance or compliance testing;
- A summary of operating data, as necessary, relating to System performance or compliance testing;
- A summary of all noncompliance times and locations, including the nature of any noncompliance such as operational upsets or maintenance shutdowns;
- A summary of activities performed pursuant to the Decree;
- A summary of subsequent monitoring and other data collected for each noncompliance;
- Maps and figures necessary to demonstrate geographical or temporal trends with respect to compliance;
- An explanation of any noncompliance which the City determine is due only to a statistical variation

- or non-systemic variance (such as operational variation) and corrective actions planned; and
- A description of activities planned for the next Compliance testing Period.

Within forty-five (45) days of receipt of the Compliance Testing Report for the second of two consecutive successful Compliance Testing Periods, EPA shall notify the City whether Compliance Testing Activities have been successfully completed in accordance with this Decree.

4.4 Operation and Maintenance Activities

The City shall perform operation and maintenance activities after the compliance testing period is complete to ensure that the system operates properly and successfully and continues to meet the objectives and the performance standards of this Decree. The City shall perform monitoring, training and maintenance. The continued monitoring program shall include sampling and analysis elements performed compliance testing. The Monitoring Action Plan including the schedule for monitoring shall be included in the Remedial Action Work Plan. *O + M Manual*

If at any time during the Operation and Maintenance, the City fail to meet any Performance Standard, the City shall:

- Take all immediate steps necessary to protect public health and safety and the environment
- Submit a written Noncompliance Notification to EPA within five (5) days of receipt of the information indicating the noncompliance event. The format of the Noncompliance Notification shall be presented in the Operations & Maintenance Manual and shall include at a minimum:
 - The time and location of the noncompliance event
 - The nature of the noncompliance event including quantitative monitoring data
 - Identification of the Performance Standard(s) that were not complied with
 - Description of the activities already performed to verify the monitoring data or to remedy the noncompliance
 - Additional monitoring data necessary to demonstrate compliance if compliance is achieved and maintained within five (5) days of receipt of the information indicating the noncompliance event

The City shall re-perform the Compliance Testing within 2 weeks of the unsuccessful testing. In the event that compliance is not attained again, the City shall submit a Compliance Action Plan within fifteen (15) days of receipt of the information indicating the second noncompliance event. The format of the Compliance Action Plan shall be presented in the Remedial Action Work Plan and shall include at a minimum:

- The information presented in the Noncompliance Notification and any additional information.
- Description of the activities necessary to attain compliance, including plans, specifications and calculations, as necessary
- A schedule for performance of the activities necessary to attain compliance, including the date that compliance is expected to be demonstrated and the schedule for additional performance testing.

The City shall commence performance of such activities upon written approval of the Compliance Action Plan by EPA. The City may commence performance of the activities described in the Compliance Action Plan upon verbal authorization to begin such activities by the EPA Project Coordinator. Such verbal authorization shall not constitute approval of the Compliance Action Plan or the schedules set forth in the Compliance Action Plan.

In the event that compliance is not achieved within the time specified in the Compliance Action Plan, the Work Defendants shall submit an additional Compliance Action Plan instead of the Noncompliance Correction Report.

In the event that major modifications to the Work systems are required during the Operation & Maintenance activities, the City shall submit a Technical Memorandum following the procedures set forth in Section of this SOW for each such modification.

5.0 DELIVERABLES AND REVIEW PROCEDURES

5.1 Deliverables

The following items are considered to be deliverables under this Decree

Construction Planning:

- Draft Remedial Action Work Plan
- Prefinal Remedial Action Work Plan, if necessary
- Final Remedial Action Work Plan
- Monthly Progress Reports

Construction:

- Constructor Selection Notification
- Construction Completion Report (Prefinal & Final)
- Monthly Progress Reports

Compliance Testing:

- Compliance Testing Reports
- Monthly Progress Reports

Operation and Maintenance:

- Noncompliance Notification, if necessary
- Monitoring Action Plan
- Yearly Status Reports

Technical Memorandum, if necessary

Minor Technical Memorandum

- Request with Outline and 10% Technical Memorandum
- Prefinal-90% Minor Technical Memorandum
- Final-100% Minor Technical Memorandum, if necessary

Major Technical Memorandum

- Request with Outline and 10% Technical memorandum
- Intermediate-60% Major Technical Memorandum
- Prefinal-90% Major Technical Memorandum
- Final-100% Major Technical Memorandum, if necessary

5.3 Potential Deliverables (Changes in Design)

The primary mechanism for modifying final plans and designs after approval shall be through submittal of Technical Memorandum. Field changes which do not necessitate material changes to the design shall be made by agreement of the Project Coordinators.

In the event that the City or EPA determines that modification of an approved plan or design

package is necessary, the City shall submit a written request for the modification to the EPA Project Coordinator including:

- Reasons for the proposed modification
- Proposal for submittal of either a Minor or Major Technical Memorandum, as appropriate
- Outline and 10% Technical Memorandum

Upon EPA approval of the request and determination of whether a Minor or Major Technical Memorandum is appropriate, the City shall submit the Technical Memorandum pursuant to the schedule set forth in this Decree.

In addition to the Outline and 10% Technical Memorandum submitted with the request, Minor Technical Memorandum shall be submitted for review at two levels of completeness (Prefinal-90% and Final-100%). If EPA determines that the Prefinal 90% Minor Technical Memorandum is sufficient, EPA may approve the Prefinal-90% Minor Technical Memorandum as Final.

In addition to the Outline and 10% Technical Memorandum submitted with the request, Major Technical Memoranda shall be submitted for review at three levels of completeness (Intermediate 60%, Prefinal-90% and Final-100%). If EPA determines that the Prefinal-90% Major Technical Memorandum is sufficient, EPA may approve the Prefinal-90% Major Technical Memorandum as Final.

Each Technical Memorandum shall include least the following types of information, completed to a level compatible with the review stage:

- General description of the modification, including the purpose of its implementation;
- General arrangement of the modification showing its location;
- Typical details and cross sections for the modifications;
- Detailed Plans and Specifications, as appropriate;
- Description of tasks necessary to assure appropriate site activities occur through coordination and integration of the new activities with operation of existing systems;
- Engineering calculations which support the modification configuration, as appropriate; and;
- Amendments to the SHERP, Sampling Plans, or Operations & Maintenance Manual to accommodate new or modified activities, as appropriate.

5.4 Modifications to Final Land Use

Open space is the land use designated in the approved Design. If the City elects to convert the open space to a regional park, the City shall assure that the integrity of the gas control system, the cover system, the surface water management system, and if necessary, the contingency leachate collection system is not compromised. Modifications to the approved Design that result in change of future land use is considered a major change and will require an amendment to the Remedial Action Work Plan. The amendment will contain the following:

- general description of modifications to approved Design;
- list of technical memo(s) to be submitted;
- whether the memo(s) are major or minor technical memorandums;
- general description of content of each technical memo including any analysis to be performed;
- schedule for submittal of technical memo(s);
- revised schedule for RA; and
- plan to implement elements of Work not impacted by the modifications.

All technical memos shall contain a statement by a registered engineer or geologist verifying that the proposed modifications to the approved Design will meet the design criteria and performance standards used in developing the final design.

The City shall have up to an additional nine months, but no less than three additional months, to construction complete if there is a change to the final land use designation. The amount of additional time shall be determined by EPA and shall be determined on the amount of additional design required and the City's willingness to proceed with Work elements not impacted by the modifications. Construction complete does not include improvements to the borrow area, vegetation on the cap in excess of what is required in the final design, or any improvement to areas not part of the landfill gas control system, cover system, surface water management system and contingency leachate collection system, if necessary.

5.5 Review Procedures

This Section describes the review procedures required for the deliverables defined in this Decree, and the procedures for the construction, inspection and startup processes. Any deliverable not identified in this Section shall undergo, at a minimum, the review procedure and schedule set forth for the Minor Technical Memorandum. The Decree may require submission of additional deliverables not referred herein.

Review conferences are established to provide a format for presentation of EPA's review comments to the Defendants. This will facilitate the incorporation of EPA comments into the next phase of the Work submittal.

The City shall appoint one representative to be the official contact for EPA. Review comments and approval notices will be sent via facsimile and regular mail to the contact representative. The schedule for the next deliverable begins with delivery of the approval letter or letter to proceed to the City representative via the facsimile.

6.0 SCHEDULE

This section provides schedules for the deliverable reports. If EPA determines it is appropriate, the time periods set forth pursuant to this schedule may be extended without requiring a formal modification to this Consent Decree. Requests for schedule modifications made by the City should include a discussion of the reason for the request. The City may elect to submit deliverables prior to the scheduled deliverable date. The following time periods apply to this project.

The Draft Remedial Action Work Plan shall be due eight weeks after entry of the Consent Decree.

The Prefinal Remedial Action Work Plan shall be due eight weeks after receipt of EPA approval of the draft.

The Final Remedial Action Work Plan shall be due six weeks after receipt of EPA approval of the Prefinal.

Construction Activities (i.e submittal of draft Construction Completion Report) shall be completed within twenty months after approval of Final Remedial Action Work Plan. (The Construction Complete may be extended by EPA based on factors described in

Section 5.4)

The final Construction Complete Report shall be due six weeks after receipt of EPA's comments on the draft Construction Completion Report.

Two Compliance Testing Periods shall be completed successfully within 12 months of completion of Construction Activities. The second Compliance Testing Period shall commence no sooner than 4 months after the first.

7.0 PERFORMANCE STANDARDS

Performance Standards shall be defined to be those cleanup standards, standards of control and other substantive requirements, criteria or limitations, set forth in the 1993 ROD, the Consent Decree, and the SOW. The City shall meet the Performance Standards as set forth in this Decree.

7.1 Applicable or Relevant and Appropriate Regulations

The California Regional Water Quality Control Board Central Valley Region (CRWQCB-CVR) has identified Sections of Title 23, Chapter 15 of the California Code of Regulations as ARARs. The Sections EPA selects as ARARs are; Section 2510(a), 2510(b), 2510(c) and 2510(d) of Chapter 15, which pertain to applicability of chapter 15 and to engineered alternatives to the prescriptive standard for final cover at a waste management unit; Section 2580 of Chapter 15, which pertains to general closure requirements; Section 2581 of Chapter 15, pertaining to landfill closure requirements; Section 2540 of Chapter 15, which pertains to general construction standards for containment structures; Section 2541 of Chapter 15, which pertains to general design and construction requirements for containment structures; Section 2546 of Chapter 15, which pertains to the design, construction and maintenance of drainage, collection and holding facilities for waste management units; Section 2547 of Chapter 15, which pertains to design and construction of landfill structures to withstand seismic events; Section 2596 of Chapter 15, which pertains to the information required in the design reports and operations plan for containment structures, precipitation and drainage control facilities and ancillary facilities.

The California Integrated Waste Management Board (CIWMB) has identified Sections of Title 14, California Code of Regulations as ARARs. The Sections which EPA selects as ARARs are; Section 17705 of Title 14, which pertains to gas control; Section 17774 of Title 14, which pertains to construction quality assurance; Section 17783 of Title 14, which pertains to gas monitoring and control during closure and post-closure; Section 17783.9 of Title 14, which pertains to monitored parameters; Section 17783.11 of Title 14, which pertains to monitoring frequency; Section 17773 of Title 14, which pertains to final cover; Section 17777 of Title 14, which pertains to final site face; Section 17778 of Title 14, which pertains to final drainage; Section 17779 of Title 14, which pertains to slope protection and erosion control; Section 17778.5 of Title 14, which pertains to perimeter monitoring network; Section 17783.7 of Title 14, which pertains to structure monitoring; Section 17776 of Title 14, which pertains to final grading; Section 17783.15 of Title 14, which pertains to gas control; Section 17788 of Title 14, which pertains to post-closure maintenance; Section 17792 of Title 14 which pertains to change of ownership during closure and postclosure maintenance; Section 17796 of Title 14, which pertains to post-closure land use.

7.2 Additional Performance Requirements

Ambient air concentrations of landfill gas contaminants or landfill gas treatment facility contaminant emissions shall not exceed a level, as determined by EPA, which would cause a 10⁻⁶ excess cancer risk as determined pursuant to the California Air Pollution Control Officers Association (CAPCOA) Air Toxics "Hot Spots" Program Risk Assessment Guidelines (January 1991).

The trace gases to be monitored, sampled and controlled at the Fresno Sanitary Landfill Site shall be; methane, 1,2-dichloroethane, 1,1,1-trichloroethane, benzene, trichloroethene, methylene chloride, tetrachloroethane, vinyl chloride, and carbon tetrachloride. During the implementation of this Decree, EPA may require that trace gases be added to the list for monitoring; and the City may request that trace gases be removed from the list for monitoring subject to EPA approval.

At a threshold minimum, the remedy must meet the requirements of the Solid Waste Disposal Sites - Draft Rule 4642, which (1) establishes a reactive organic destruction efficiency of 98% for any reactive organic except methane, (2) requires that flares designed as part of the landfill gas control system be enclosed in a shroud, and (3) requires that the maximum concentration of organic compounds measured as methane, measured at any point on the surface of the landfill, shall not exceed 1000 ppm.

(Note: Section 4.2.1.6 of Rule 2201 of the Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) exempts the selected interim remedy from the "offset" requirements which would otherwise be applied to the flare effluent, including oxides of nitrogen under the Rule.)

The landfill gas extraction system will be operated until LFG production has declined to the extent that the compliance points LFG monitoring (at the surface an organic compound maximum of 1000 ppm measured as methane and at the perimeter monitoring wells a maximum of 5% methane) requirements can be met without active LFG extraction. The LFG flares shall be operated as long as the LFG extraction system is in operation.

**APPENDIX D
SCOPE OF WORK
FRESNO SANITARY LANDFILL
OPERABLE UNIT TWO
REMEDIAL DESIGN/REMEDIAL ACTION**

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**SCOPE OF WORK
OPERABLE UNIT TWO
REMEDIAL DESIGN/REMEDIAL ACTION**

1.0 INTRODUCTION AND OBJECTIVES

1.1 Introduction

This Scope of Work (SOW) details the activities to be undertaken by the City of Fresno (the City) in compliance with this Consent Decree at the Fresno Sanitary Landfill (FSL).

The Work includes all activities necessary for the design, construction, system effectiveness evaluation, compliance testing, and operation and maintenance of the groundwater remediation system, including groundwater extraction, piping and associated equipment, groundwater treatment, groundwater monitoring and disposal of water. The Work also includes the development and implementation of management plans as well as communication, integration and coordination procedures.

The groundwater remediation shall be conducted in phases. The basic elements of Work shall include:

- Groundwater monitoring;
- Abandonment of certain wells;
- Institutional controls during remediation;
- Design of phasing approach;
- Design of extraction and treatment system;
- Installation and operation of phase I groundwater extraction wells and associated monitoring wells (landfill perimeter containment);
- Installation and operation of phase II groundwater extraction wells and associated monitoring wells (plume containment);
- Installation and operation of phase III groundwater extraction wells and associated monitoring wells (aquifer restoration);
- Analysis of each phase of the groundwater remedy;
- Treatment system for the extracted groundwater and all necessary piping; and
- Disposal of treated water.

In the event that Work activities result in the alteration, destruction or abandonment of any site facility not related to the Work but necessary for the site work, the City shall either repair or replace, as necessary, such a facility with one that provides the same level of control or function as appropriate.

1.2 Objectives

This section states the overall objectives for the Work to be performed pursuant to the Consent Decree. In addition, the objectives for components of the Work are summarized herein. The objective of the groundwater remediation work is to restore the aquifer to beneficial use in a timely and cost-effective manner. The overall objective for the Work is to design, evaluate, construct, operate, maintain, and monitor the Groundwater Restoration System to meet Performance Standards.

1.2.1 Phase I - Source Control Phase

The objective of phase I is to create a hydraulic barrier along the perimeter of the landfill in the A and B aquifers, and C aquifer, if contamination is found in the C-zone during the monitoring program. The barrier system shall prevent the contaminated groundwater located beneath the landfill from mixing with

downgradient waters. The point of compliance in this phase is the landfill boundary. This is the point where leachate-contaminated groundwater will be contained.

An additional benefit of the Phase I system is to facilitate the Phase II goal of downgradient plume containment by changing the localized groundwater flow gradient to either a flat gradient (no movement) or reverse the flow to an easterly direction towards the landfill.

1.2.2 Phase II - Plume Containment Phase

The objective of phase II is to prevent contamination from migrating to currently uncontaminated portions of the aquifer system. This is accomplished by preventing the groundwater plume from expanding in both a lateral and vertical direction. There are two points of compliance in this phase. The landfill boundary is the point of compliance where leachate-contaminated groundwater will be contained. The extent of the plume, to be defined in the groundwater monitoring program, will be the point of compliance where currently contaminated water will be contained.

1.2.3 Phase III- Plume Restoration Phase

The objective of phase III is to actively restore the contaminated aquifer downgradient of the landfill to levels that comply with performance standards. The point of compliance in this alternative is the landfill boundary. This is the point where leachate-contaminated groundwater will be contained. All groundwater past this point will be restored to beneficial use.

1.3 Overall Approach to Groundwater Remediation

The objective of phasing in the remedy is to collect data in early phases which can be used to refine and enhance later phases of the remedial action. Data will be collected during the operation of each phase to ensure the objectives of each phase are achieved, to evaluate potential technical impracticability issues of aquifer restoration, and to collect data to optimize the design of the next phase.

The City shall prepare a Remedial Design/Remedial Action Report which describes in detail the concept of the project, the Work to be performed and the schedule of the deliverables. The Remedial Design/Remedial Action Report shall be the structure for all Work to be performed. After the Remedial Design/Remedial Action Report is approved, the City shall proceed with the submittals for phase I work. After the phase I system has been constructed and operated sufficiently to collect necessary data, the City shall submit an Evaluation of Phase I report. This report, along with the Remedial Design/Remedial Action Report, shall be the basis of design for phase II. After EPA approval of the Final Design for phase II, the City shall proceed with phase II work. This process is repeated for phase III. The Evaluation of Phase II report, along with the Remedial Design/Remedial Action Report, shall be the basis of design for phase III.

The City shall monitor the groundwater to define the extent of the plume prior to completion of phase I. During implementation of phases, the groundwater monitoring program shall be designed to determine if the objectives of the phases are being met, to aid in the design of subsequent phases and to assess technical impracticability issues. After the complete system is in place, the groundwater monitoring program shall be designed to monitor progress towards the Performance Standards and to identify any modifications needed in the system. The City shall submit a Groundwater Monitoring Plan for the initial groundwater monitoring efforts and shall update the plan as new information is gathered and as the objectives of the groundwater monitoring changes as the project progresses. The Annual Status Testing Plan shall describe the results of the groundwater monitoring program after the complete system is in place.

The City shall treat the extracted groundwater to remove contamination prior to the ultimate disposition of the treated effluent. Treatment of the groundwater will be performed either at a treatment plant that would be located on-site at the landfill or at the Fresno Regional Wastewater Facilities (RWWF). The water must be treated to applicable regulatory standards depending on end use. The treatment system will also include storage tanks, piping, mechanical equipment, and other materials necessary to process the extracted groundwater.

2.0 BACKGROUND

2.1 Site Description

The Fresno Sanitary Landfill is located four miles southwest of the City of Fresno in Fresno County, California. The Landfill consists of approximately 145 acres and is bounded on the north by Jensen Avenue, on the east by West Avenue, on the south by North Avenue, and on the west by agricultural fields. The City of Fresno owns approximately 155 acres to the north, south and southwest of the landfill. The groundwater underneath the site is part of a sole-source aquifer used as drinking water and irrigation water for the residents of Fresno. Eight water supply wells and many domestic wells are within 3 miles of the site.

The regional groundwater flow near the Fresno Sanitary Landfill is to the southwest although local irrigation pumping affects the local flow rates and direction. Pumping of agricultural wells near the site also induces downward vertical gradients that are not present during non-pumping months. Four hydrostratigraphic units are identified including (in descending order) a shallow sandy A aquifer at the water table, a silt and clay B aquitard, a B aquifer with interbedded silts and discontinuous sands, and a continuous sandy C aquifer at approximately 250 feet below the site.

It has been estimated that the plume extends 1300 feet down gradient of the landfill in aquifers A & B.

2.2 Work Completed to Date

Numerous investigations have been conducted at the Fresno Sanitary Landfill, beginning in 1971, with an initial evaluation of the soils beneath the landfill. Details regarding previous sampling and analytical results are summarized in the Remedial Investigation report dated May, 1994. The Risk Assessment was completed in September 1994. The Feasibility Study was completed in July 1996. The Record of Decision was signed in September 1996.

3.0 COORDINATION AND INTEGRATION

The City shall establish integration and coordination procedures to facilitate the performance of the Work, other Site operations and other Work at the Site. Activities performed pursuant to this SOW shall be integrated and coordinated with at least the following tasks:

- Site control and monitoring;
- Site Security;
- Emergency response activities, if necessary; and
- Community relations activities.

The City shall participate in technical exchange meetings as appropriate to assure that information is exchanged and reviewed at all stages of the Work. These meetings may also be used to:

- discuss current and planned activities that may impact other work at the Site;

- discuss and present design and results during all phases of work; and
- assist in the approval of deliverables by reporting on interim conclusions and build early technical consensus.

When necessary, other organizations, including state or local agencies, may attend meetings. The EPA and State officials shall be notified of all meetings and the proposed agenda. The City shall develop timely notification procedures for meetings, site activities or events that might affect any Work.

3.1 Coordination with Operable Unit 1 Remedial Action

In conjunction with the design and initial phasing of the groundwater remedy, the construction of the landfill cap and associated systems will be implemented. The two projects impact the success of each other since the groundwater extracted from phase I groundwater wells will be used to irrigate the vegetation on the landfill cover, the retention ponds will impact the flow of groundwater, as well as other physical and scheduling-restrictions. It is essential that the two projects be integrated by the City.

The City shall establish technical and scheduling exchange meetings on a regular basis for coordination between the two Work efforts.

4.0 ACTIVITIES

4.1 Remedial Design Planning Activities

4.1.1 Remedial Design/Remedial Action Report

The City shall provide a Remedial Design/Remedial Action Report (RD/RA Report) which provides for phasing, evaluation, design, and implementation of the remedy. Upon its approval by EPA, the RD/RA Report shall be enforceable under this Consent Decree. The RD/RA Report shall include the following:

- a design basis for the groundwater extraction system and treatment facility design;
- identify and develop specific treatment effluent management options for the different phases and in conjunction with the OU1 Work. The plan for disposal shall be one or more of the following options:
 - Irrigation either through direct use on the landfill or by farmers in the vicinity of the landfill, or as a source of water for the irrigation canals;
 - Discharge into the Fresno drinking water supply distribution system;
 - Off-site disposal at the Fresno RWWF; and/or
 - Aquifer recharge through either reinjection or percolation ponds.

Effluent standards of the treated water will comply with the applicable regulations for the ultimate disposal. The City shall obtain applicable permits for ultimate disposal of treated water.;

- plan to implement institutional controls. The City shall coordinate with the County governmental agency which issues well permits, to restrict use or access to the contaminated aquifer during remediation.;
- methods for satisfying permitting requirements;
- a comprehensive schedule for the entire project (after approval of the RD/RA Report, this schedule becomes enforceable under this Consent Decree). The schedule shall include a phasing schedule for the extraction well system (including monitoring system) and the schedule for developing and submitting each deliverable required of this SOW;
- preliminary plans for the entire system identifying each phase;
- preliminary construction plans and specifications for Phase I;
- outline and schedule for developing the Operation and Maintenance Plan;

- discussion of requirements for the technical impracticability waiver;
- outline and discussion of Evaluation of Data Reports for Phase I and Phase II, including comprehensive description of data collection and evaluation procedures during the phase I & II;
- outline and discussion of Annual Status Testing Plan including comprehensive description of data collection and evaluation procedures needed to predict time to achieve Performance Standards;
- coordination procedures for involving regulating agencies;
- coordination procedures with Work under Operable Unit 1;
- procedures and schedules for the review of contractor submittals;
- procedures for notification of meetings;
- identification of key meetings;
- community notification plan; and

Appendices:

Groundwater Monitoring Plan

The groundwater monitoring report shall present a plan to monitor the extent and movement of the groundwater plume. The plan shall include calculations and evaluations to demonstrate the plume is adequately defined and monitored. After approval of the Groundwater Monitoring Plan, the City shall proceed with installation of the elements in the plan.

Well Decommissioning Plan

The City shall decommission any groundwater supply and monitoring wells in the vicinity of the site that may allow cross-contamination between upper and lower aquifer units. The Well Decommissioning Plan, which must comply with state and local requirements, shall be submitted for approval prior to implementation.

4.1.2 Sampling Plans

Sampling Plans, whether for monitoring and sampling activities or for other activities, shall comply with EPA guidelines and shall include at least the following components:

- Sampling rationale and description of techniques used in selecting sampling sites (e.g., random, stratified, etc.);
- Specific sampling, preservation, and preparation procedures used, extraction methods, analytical references or description (including sample size, types of sample containers, applicable samplers, etc.) For nonstandard or modified sampling methods, detailed procedures with appropriate references are required;
- Sampling program organization, if needed;
- Description of sample container and sampler cleaning procedures for each type of container to be used following EPA guidelines or other appropriate procedures;
- Procedures to avoid sample contamination;
- Sample preservation methods and holding times, following EPA SW846 guidelines or other appropriate references;
- Sample transportation requirements (following EPA and Department of Transportation guidelines, as applicable);
- Chain-of Custody procedures, following the EPA SW-846 guidelines, and other appropriate references;
- Procedures and responsibility for data validation, as appropriate;
- Sampling and sample custody procedures, including the sample site selection rationale;
- Analytical methods/procedures;
- Analytical/statistical/control procedures, including requirements for accuracy, sensitivity, precision, sample quantities, calibration procedures, preventive maintenance, internal quality control checks, representative samples and data comparability;
- Data handling, analysis and reporting; and
- Data validation procedures.

4.1.3 Safety, Health and Emergency Response Plan (SHERP)

The SHERP shall establish safety, health and emergency response procedures for all Work activities to be conducted by the City. The SHERP shall address both workers at the site and public exposure to releases or spills at the site. The SHERP shall include at least the following basic elements:

- Introduction and Purpose;
- Applicable Laws and Regulations;
- On site Organization and Coordination;
- Medical Surveillance Program;
- Chemicals of Concern;
- Activities Hazard Analysis;
- Site Control, Work Zones, and Security Measures;
- General Safe Work practices;
- Training;
- Personnel Protective Equipment;
- Procedures for updating and distributing the SHERP;
- Record Keeping;
- Requirements for Subcontractors; and
- Procedures for special activities.

EPA's comments on and approval of the Safety, Health and Emergency Response Plan shall not constitute EPA approval of the health and safety protocols and other health and safety portions of this Plan.

4.2 Remedial Design

4.2.1 Prefinal Design (90%)

The City shall submit the Prefinal Design for each Phase of Work according to the approved RD/RA Report. The Prefinal Design shall function as the draft version of the Final Design and shall include, at a minimum, the following:

- construction drawings and specifications. All specifications shall conform to CSI format;
- technical memorandum documenting changes from the basis of design established in the RD/RA Report;
- draft Operations & Maintenance Manual (or modifications to existing one for Phases II & III) which shall include:
 - operation of all equipment;
 - start-up operation and testing period; and
 - contingency plan in case of equipment failure;
- methodology for decontamination of equipment and the disposal of contaminated material;
- procedures for interpreting the technical and schedule impacts of proposed field changes and contract modifications;
- procedures for documenting field changes;
- procedures verifying and documenting compliance with quality control requirements;
- preliminary cost estimate;
- update of Groundwater Monitoring Plan;
- plan for monitoring quality of effluent water; and
- testing required to evaluate operation of system and system efficiency.

If the comments on the Prefinal documents are numerous and extensive, EPA may require a written response to comments before EPA approves the Prefinal Design. The Phase II Prefinal Design and/or the Phase III Prefinal Design may be approved as the Final Design.

4.2.2 Final Design (100%)

The City shall prepare a Final Design which shall address comments generated from the Prefinal Design review and show any modifications of the design as a result of incorporation of the comments. All Final Design documents shall be approved by a professional Engineer of an approved technical discipline in California. EPA approval of the Final Design is required before initiating the RA, unless specifically authorized by EPA. The Final Design shall include the following:

- construction drawings and specifications;
- technical memorandum documenting changes from the basis of design established in the RD/RA Report;
- Operations & Maintenance Manual; and
- finalized elements required in the 90% Design.

4.3 Evaluation of Data during Phases

The City shall prepare an Evaluation of Phase report after Phase I and Phase II systems have been operated according to the schedule set forth in the RD/RA Report. Each report shall present the data collected, evaluation of the data and recommendations for implementing next phase. The Evaluation of Phase Report and the RD/RA Report will be used in preparing the Prefinal Design for the next phase.

4.3.1 Evaluation of Phase I

The Evaluation of Phase I report shall at a minimum:

- present data collected during Phase I;
- evaluate data;
- modify conceptual design for Phase II based on data;
- present engineering analysis for modifications of Phase II;
- provide documentation that Phase I is meeting its objectives; and describe the extent to which Phase II, plume containment, and Phase III, aquifer restoration objectives are being met; and
- evaluate the adequacy of the current groundwater monitoring program.

The data to be collected and analyzed are as follows:

- Water level data for each aquifer zone to assess whether the landfill perimeter extraction wells are containing all of the contaminated groundwater beneath the landfill;
- Water level and water quality data from the monitoring wells and extraction wells to assess the downgradient extent of the off-site groundwater plume;
- Drawdown data in monitoring wells surrounding the extraction wells to evaluate the capture zone in order to optimize the design of the phase II wells, if needed;
- Drawdown data in monitoring wells surrounding the extraction wells to evaluate the efficiency in the capture zone of the landfill perimeter extraction wells; and
- Water level data from extraction and monitoring wells to evaluate the impact of the extraction wells and the effect of on-land discharge of the treated water on aquifer water levels.

4.3.2 Evaluation of Phase II

After phase II of the remedy is fully implemented, the contaminated groundwater plume is fully contained. The Evaluation of Phase II report shall at a minimum:

- present data collected during Phase II;
- evaluate data;
- modify conceptual design for Phase III based on data;
- present engineering analysis for modifications of Phase III;
- provide documentation that Phase II is meeting its objectives; and describe the extent to which Phase III, aquifer restoration objectives are being met; and
- evaluate the adequacy of the current groundwater monitoring program.

Data to be collected and analyzed during this phase is as follows:

- Water level data to assess whether the off-site plume is being contained both laterally and vertically by the extraction wells;
- Water quality data from the monitoring wells and extraction wells to assess rate of contaminant removal and determine the most effective way to install and operate phase III wells, if needed;
- Water level and quality data from the monitoring wells and extraction wells to assess rate and amount of contaminant removal from the phase II wells to determine effectiveness of the phase II system in terms of timely removal of contamination;
- Drawdown data in monitoring wells surrounding the pumping wells to assess influence of different pumping rates to efficiently design the aquifer restoration wells (phase III); and
- Water quality data from the monitoring wells and extraction wells around the lateral edges of the contaminated portion of the aquifer near the site to assess the rate of contaminant removal where groundwater is flushed through the aquifer system.

4.4 Construction Activities

Construction activities shall be directed by the approved Final Design, the RD/RA Report and other Management Plans. The City shall provide technical supervision and construction management during the Work construction activities. Construction activities shall include:

- Construction;
- First System Inspection;
- Punch list activities, as necessary;
- Reinspection(s), as necessary;
- Pré-startup testing;
- Startup testing;
- Final inspection;
- System Startup and initial operating period to ensure system is operating properly and successfully; and
- Initial short-term operating period to ensure system is operating as designed.

If the City or EPA determine that a design modification is necessary during construction, a Technical Memorandum shall be submitted by the City to EPA using procedures set forth in this SOW.

4.4.1 Operation and Maintenance Manual

The Operations & Maintenance Plan shall be amended, if appropriate, to guide the operations, maintenance and monitoring activities required for the Work. The Operations & Maintenance Manual shall be amended to include, at a minimum, the following:

- Manufacturer's O&M procedures;
- Operational Emergency response;
- Maintenance procedures and schedules;
- Compliance monitoring procedures and schedules;

- Parts and equipment inventory;
- Well abandonment procedures; and
- Appendices with:
 - Sampling Plans for each of the monitoring and sampling activities
 - Annual Status Testing Plan to guide testing activities

4.4.2 Construction Completion Report

Construction activities shall be considered complete after submittal and approval of the Construction Completion Report to EPA. The format of the Construction Completion Report shall be presented in the RD/RA Report and shall include, at a minimum, the following:

- Introduction;
- Revised As-Built Plans and specifications reflecting any modifications made to the Work Systems as part of the Compliance Testing Activities, as necessary;
- Revised Operations Plan reflecting any changes to operational procedures as a result of Start-up Activities and initial operating period, as necessary;
- QA/QC records;
- Summary of design changes implemented by the Technical Memorandum process;
- Revised Operations and Maintenance Manual, as required; and
- Professional Engineer certification that Work has been completed according to design, and that As-Built Drawings are accurate

4.5 Operation and Maintenance Activities

The City shall perform operation and maintenance activities after construction is complete to ensure that the system meets the objectives and is optimally working toward compliance with the Performance Standards of this SOW. The City shall perform status testing at regular intervals, not less than biannually. The City shall submit an Annual Status report which shall contain at a minimum, the following

- A summary of monitoring and other activities related to O&M and compliance with this SOW conducted during the past Monitoring Period;
- A summary of monitoring and other data collected during the Monitoring Period including the locations and sampling dates for each data point or set of data points relating to system performance or compliance testing;
- A summary of operating data, as necessary, relating to System performance;
- A summary of all down times and locations, including the nature of any noncompliance such as operational upsets or maintenance shutdowns;
- A summary of activities performed pursuant to this SOW;
- Maps and figures necessary to demonstrate geographical or temporal trends with respect to compliance;
- A description of activities planned for the next Monitoring Period;
- Evaluation of data showing how the objective for each phase is being met;
- Evaluation of time to reach Performance Standards;
- Summary of all Data showing historical trends.;
- Identification of Performance Standards which are subject to compliance testing;
- Discussion of overall approach to demonstrating compliance with identified Performance Standards, including the manner in which statistical and temporal variations and non-systemic performance variances will be interpreted;
- Description of the specific monitoring procedures that will demonstrate compliance with Performance Standards, including monitoring frequency within the Monitoring periods

- Sampling Plans, as necessary;
- Monitoring schedule, taking into account personnel and equipment logistics and integration and coordination with other Site activities;
- Specific coordination procedures for any EPA split or replicate sampling activities; and
- Letters notifying the residents of the results of sampling of their wells.

If at any time during the Operation and Maintenance, the plume migrates into a residential well, the City shall:

- Take all immediate steps necessary to protect public health and safety and the environment;
- Submit a written notification to EPA within five (5) days of receipt of the information indicating the results of the sampling. The format of the notification shall be presented in the Operations & Maintenance Manual and shall include at a minimum;
 - The location of the sampling event;
 - Identification of the Performance Standard(s) that were not complied with, if a Performance Standard was exceeded;
 - Description of the activities already performed to verify the monitoring data or to remedy the exceedence;
 - Additional monitoring data necessary;
 - Description of the activities necessary to remedy the problems, including plans, specifications and calculations, as necessary; and
 - A schedule for performance of the activities necessary to remedy the problem.

In the event that major modifications to the Work systems are required during the Operation & Maintenance activities, the City shall submit a Technical Memorandum following the procedures set forth in this SOW for each such modification.

5.0 DELIVERABLES AND REVIEW PROCEDURES

5.1 Deliverables

The following items are considered to be deliverables under this Consent Decree. EPA may, upon request of the City, omit some deliverables.

Design Planning Deliverables:

- Draft RD/RA Report (prefinal, if necessary, and final)
- Well Decommissioning Plan (draft and final)
- Groundwater Monitoring Plans (draft and final)
- Sampling Plans (draft and final)
- Monthly Progress Reports

Design Deliverables:

- Prefinal Design, Phase I
- Final Design, Phase I
- Prefinal Design, Phase II
- Final Design, Phase II
- Prefinal Design, Phase III
- Final Design, Phase III
- Monthly Progress Reports

Evaluation Deliverables:

- Evaluation of Phase I Report (draft and final)
- Evaluation of Phase II Report (draft and final)
- Request for Technical Impracticability Waiver, if necessary (draft and final)
- Monthly Progress Reports

Construction Deliverables:

- Construction Completion Report for each phase (Prefinal & Final)
- Operations and Maintenance Manual
- Annual Status Testing Plan
- Monthly Progress Reports

Operation Maintenance Deliverables:

- Notification of Residential Well impacted, if necessary
- Annual Status Reports
- Request for Technical Impracticability Waiver, if necessary (draft and final)

Technical Memorandum, if necessary

- Request with Outline and 10% Technical Memorandum
- Prefinal-90% Technical Memorandum
- Final-100% Technical Memorandum, if necessary

5.3 Potential Deliverables (Changes in Design)

The primary mechanism for modifying final plans and designs after approval shall be through submittal of Technical Memorandum. Field changes which do not necessitate material changes to the design shall be made by agreement of the Project Coordinators.

In the event that the City or EPA determine that modification of an approved plan or design package is necessary, the City shall submit a written request for the modification to the EPA Project Coordinator including:

- Reasons for the proposed modification
- Outline and 10% Technical Memorandum

Upon EPA approval of the request, the City shall submit the Technical Memorandum pursuant to the schedule set forth in this SOW.

The Technical Memorandum shall be submitted for review at two levels of completeness (Prefinal-90% and Final-100%). If EPA determines that the Prefinal 90% Minor Technical Memorandum is sufficient, EPA may approve the Prefinal-90% Minor Technical Memorandum as Final.

The Technical Memorandum shall include at least the following types of information, completed to a level compatible with the review stage:

- General description of the modification, including the purpose of its implementation;
- General arrangement of the modification showing its location;
- Typical details and cross sections for the modifications;
- Detailed Plans and Specifications, as appropriate;
- Description of tasks necessary to assure appropriate site activities occur through coordination and integration of the new activities with operation of existing systems;
- Engineering calculations which support the modified configuration, as appropriate;
- Amendments to the SHERP, CQA, Sampling Plans, or Operations & Maintenance Manual to accommodate new or modified activities, as appropriate;

5.4 Review Procedures

This section describes the review procedures required for the deliverables defined in this SOW, and the procedures for the construction, inspection and startup processes. Any deliverable not identified in this SOW shall undergo, at a minimum, the review procedure and schedule set forth for the Technical Memorandum. The Consent Decree may require submission of additional deliverables not referred herein.

The City shall send a copy of all reports and transmittals to the lead contact at the California Department of Toxic Substance Control.

Review conferences are established to provide a format for presentation of EPA's review comments to the Defendants. This will facilitate the incorporation of EPA comments into the next phase of the Work submittal.

The City shall appoint one representative to be the official contact for EPA. Review comments and approval notices will be sent via facsimile and regular mail to the contact representative. The deliverable schedule commences with receipt of the facsimile to the one contact representative.

6.0 SCHEDULE

This section provides schedules for the deliverable reports. If EPA determines it is appropriate, the time periods set forth pursuant to this schedule may be extended without requiring a formal modification to this Consent Decree. Requests for schedule modifications made by the City should include a discussion of the reason for the request. The City may elect to submit deliverables prior to the scheduled deliverable date. The following time periods apply to this project.

The Draft RD/RA Report shall be due twelve weeks after entry of the Consent Decree.

The Prefinal RD/RA Report shall be due six weeks after receipt of EPA approval of the Draft.

The Final RD/RA Report shall be due three weeks after receipt of EPA approval of the Prefinal.

The Prefinal Design, Phase I, shall be due thirteen weeks after receipt of EPA approval of the Final RD/RA Report.

The Final Design, Phase I, shall be due six weeks after receipt of EPA approval of the Prefinal Design, Phase I.

Phase I Construction Activities (i.e submittal of Construction Completion Report) shall be completed within twelve months after receipt of EPA approval of Final Design, Phase I.

The Evaluation of Phase I Report shall be due twelve months after submittal of the Construction Complete Report.

The Prefinal Design, Phase II, shall be due ten weeks after receipt of EPA approval of the Evaluation of Phase I Report.

The Final Design, Phase II, shall be due six weeks after receipt of EPA approval of the Prefinal Design, Phase II.

Phase II Construction Activities (i.e submittal of Construction Completion Report) shall be completed within six months after receipt of EPA approval of Final Design, Phase II.

The Evaluation of Phase II Report shall be due nine months after submittal of the Construction Complete Report.

The Prefinal Design, Phase III, if necessary, shall be due twenty four months weeks after receipt of EPA approval of the Evaluation of Phase II Report.

The Final Design, Phase III , shall be due six weeks after receipt of EPA approval of the Prefinal Design, Phase II.

Phase III Construction Activities (i.e submittal of Construction Completion Report) shall be completed within six months after receipt of EPA approval of Final Design, Phase III.

7.0 PERFORMANCE STANDARDS

Performance Standards shall be defined to be those cleanup standards, standards of control and other substantive requirements, criteria or limitations, set forth in the 1993 ROD, the Consent Decree, and the SOW. The City shall meet the Performance Standards as set forth in this SOW.

7.1 Applicable or Relevant and Appropriate Regulations

The following federal regulations have been determined to be applicable or relevant and appropriate requirements at the Fresno Sanitary Landfill:

Safe Drinking Water Act 40CFR 141.61: MCLs, Provides maximum contaminant levels (MCLs) for drinking water.

Safe Drinking Water Act 40CFR 144: Underground Injection. Provides Requirements for Underground Injection Program.

Clean Water Act 33 CFR Part 301 &302: Effluent Limitations. Requires establishment of technology-based discharge limits for point sources of pollution

Clean Water Act 33 CFR Part 307: Toxic & Pretreatment Standards. Requires the establishment of pretreatment standards for the control of pollutants to POTW.

Clean Air Act 40 CFR 61: National Emission Standards for Hazardous Air Pollutants. Identifies and establishes emission standards for specific chemicals.

The following state of California regulations have been determined to be applicable or relevant and appropriate requirements at the Fresno Sanitary Landfill:

Water Quality Control Plan (Basin Plan) for the RWQCB, CCR: Establishes water quality objectives, including narrative and numerical standards, that protect the beneficial uses and water quality objectives of surface and ground waters in the region.

Title 23, Division 3, Chapter 15, Article 123 CCR 2511(d): Actions taken by or at the direction of public agencies to clean up or abate conditions of pollution or nuisance resulting from unintentional or unauthorized releases of waste or pollutants to the environment are exempt from the requirements in the chapter; provided that wastes, pollutants, or contaminated materials removed from the immediate place of release shall be discharged according to Article 2 of this Chapter; and further, that remedial actions intended to contain such wastes at the place of release shall implement applicable provisions of this subchapter to the extent feasible.

Title 23, Division 3, Chapter 15, Article 123 CCR 2510(g): Since the waste at the site will be contained, the requirement that persons responsible for discharges at waste management units which are closed, abandoned, or inactive on the effective date of these regulations may be required to develop and implement a monitoring program

in accordance with Article 5 of this chapter is applicable.

State Water Resources Control Board Resolution No. 92-49 III G. (As amended April 21, 1994): Establishes requirements for investigation and cleanup and abatement of discharges that impact or threaten water quality. Dischargers must clean up and abate the effects of discharges in a manner that promotes the attainment of either background water quality or the best water quality that is reasonable if background is not technically and economically feasible.

State Water Resources Control Board Resolution No. 88-63 ("Sources of Drinking Water Policy") (as contained in the RWQCB's Water Quality Control Plan) Specifies that, with certain exceptions, all ground and surface waters have the beneficial use of municipal or domestic water supply.

Title 23, CCR, §2550.6: Requires monitoring for compliance with remedial action objectives for three years from the date of achieving cleanup levels.

Title 23, CCR, §2550.7: Requires general soil, surface water, and groundwater monitoring.

Title 23, CCR, §2550.9: Requires an assessment of the nature and extent of the release, including a determination of the spatial distribution and concentration of each constituent.

Title 23, CCR, §2550.10: Requires implementation of corrective action measures that ensure that cleanup levels are achieved throughout the zone affected by the release by removing the waste constituents or treating them in place. Source control may be required. Also requires monitoring to determine the effectiveness of the corrective actions.

Title 22, CCR, Division 4, Chapter 15, Articles 4, 5.5, and 8: Requirements for public water systems. Includes maximum contaminant levels (MCLs).

Health and Safety Code §25249.5; Title 22, CCR, Division 2, Subdivision 1, Chapter 3: Prohibits the discharge or release to water or to land of a significant amount of any chemical known to the State of California to cause cancer or reproductive toxicity when the chemical will probably pass through a source of drinking water.

Title 22, CCR, Division 4.5, Chapter 14, Article 6, §66264.90-66264.101: Groundwater Protection. Creates broad groundwater monitoring and compliance standards. Includes concentrations standards, monitoring requirements and corrective action requirements.

Title 22, CCR, Division 4.5, Chapter 14, Article 7, §66264.117: Closure & Post Closure. States that monitoring, maintenance and reporting requirements must continue for 30 years past closure.

Title 22, CCR, Division 4.5, Chapter 14, Article 9, §66264.170-66264.178: Containers. Requirements for facilities that store containers of hazardous waste.

Title 22, CCR, Division 4.5, Chapter 14, Article 10, §66264.190 -66264.200: Tanks. Outlines design and management standards for tanks.

The clean-up goals for the chemicals of concern are as follows:

Clean-up Goals for Contaminants of Concern in the Aquifer

Constituent	Concentration µg/l (micrograms per liter)
Trichloroethylene	5.0 µg/l
Tetrachloroethylene	5.0 µg/l
Vinyl chloride	0.5 µg/l
1,1-Dichloroethylene	6.0 µg/l
1,2-Dichloroethane	0.5 µg/l
<i>trans</i> -1,2 Dichloroethene	10 µg/l
<i>cis</i> -1,2 Dichloroethene	6.0 µg/l
1,2-Dichloropropane	5.0 µg/l
1,2-Dichlorobenzene	600 µg/l
1,4-Dichlorobenzene	5.0 µg/l
Benzene	1.0 µg/l
Chlorobenzene	70 µg/l
Chloroform	100 µg/l
1,1-Dichloroethane	5.0 µg/l
Trichlorofluoromethane	150 µg/l
Toluene	150 µg/l